ES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFOR
RD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSI
NFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD U
IVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY
RARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES
TY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES
ES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFOR
RD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSI
NFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD U
IVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY
RARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES
TY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES
ES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFOR
RD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSI
NFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD U
IVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY

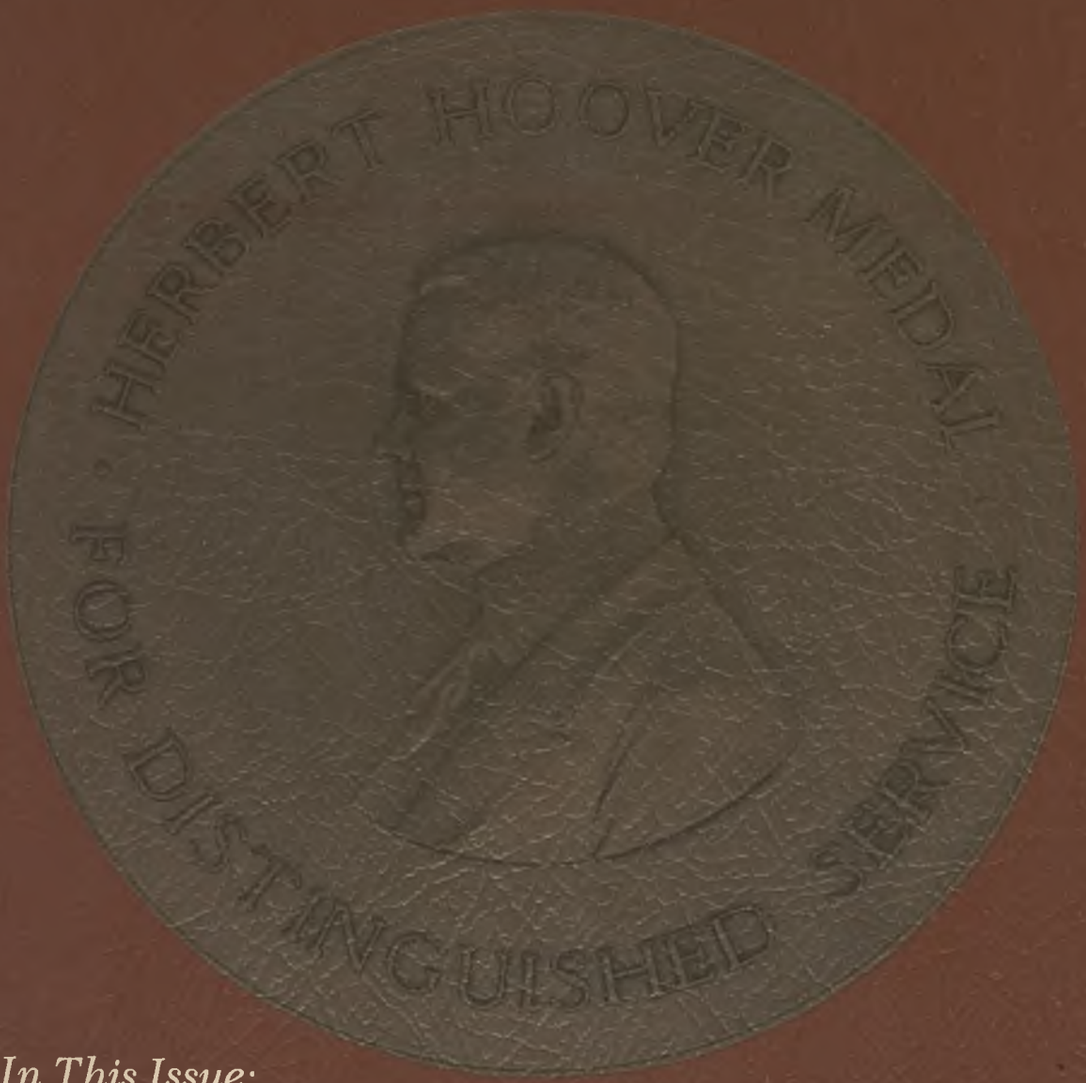
STANFORD UNIVERSITY LIBRARIES
8050

ES · STA
RD UNIVI
NFORI
IVERSI
RARIES
TY LIBRA
ES · STA
RD UNIVI
NFORI
IVERSI
RARIES
TY LIBRA
ES · STA
RD UNIVE
NFORI
IVERSI

ES · STA
RD UNIV
ANFOR
IVERSI
RARIES
TY LIBRA
ES · STA
RD UNIV
ANFOR
IVERSI
RARIES
TY LIBRA
ES · STA
RD UNIV
ANFOR
IVERSI

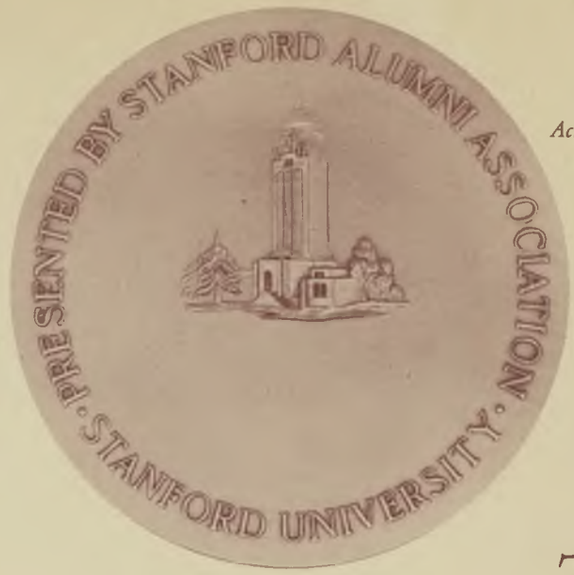
STANFORD REVIEW

September–
October
1962



In This Issue:

Coat-Tails Aren't Enough . . . *By Thomas S. Barclay*
Some of My Best Friends Are Eggheads . . . *By Bruce Bliven*
To Helsinki and Back . . . *By Jerry E. Berg*



Actual Size
the Me

The HERBERT HOOVER Meda*l*
for Distinguished Service

Service has been Herbert Hoover's constant preoccupation throughout a lon and fruitful life. His historic accomplishments in behalf of his country and hi fellow man make him Stanford's most distinguished alumnus. There are fe Herbert Hoovers, but Stanford has many illustrious sons and daughters who merit rec ognition—and little means of extending it, since this university has never joined in th much abused pastime of scattering honorary degrees.

The Stanford Alumni Association meets this need with a new award—and becaus his involvement in larger affairs was never so great as to prevent his serving his unive sity also, in large ways and in small, your Alumni Executive Board unanimously agree that it should be named in Mr. Hoover's honor: The Herbert Hoover Gold Medal fo Distinguished Service; and he has agreed to this use of his name.

Readers are invited to send confidential nominations to: The Herbert Hoove Medal, Bowman Alumni House, Stanford, Calif. (Nominees must have attended Stan ford for at least one year.) The definition of distinguished service is left purpose broad, so the five-member standing committee will need full documentation of nom inees' accomplishments; the more complete the report, the better. The Medal will no necessarily be awarded every year, but there will be annual consideration of nominee Each nomination will remain in force for five years.

Published by the Stanford Alumni Association

STANFORD REVIEW

September-October 1962

Vol. LXIV No. 1

In This Issue:

Coat-Tails Aren't Enough 18
The 1962 elections . . . by Thomas S. Barclay

Part-Time Scholar 21
A growing program: study-while-you-work

Some of my Best Friends . . . 22
. . . are eggheads, says alumnus Bruce Bliven

To Helsinki and Back 25
The Youth Festival trip . . . by Jerry E. Berg

DEPARTMENTS • *The Campus Scene*, page 4 • *Club Calendar*, page 11 • *Dave Jacobson's Column*, page 12 *Stanford Family Forum*, page 14 • *Faculty and Staff*, page 16 • *Alumni Newsmakers*, page 30 *Strictly Personal*, page 33 • *In Memoriam*, page 47 • *Book Reviews*, page 54 • *The Editor's Column*, page 56

THE STANFORD REVIEW *is published bi-monthly at Stanford University (Palo Alto) with three additional newspaper supplements issued in Autumn, Winter, and Spring under the subtitle of* ALUMNI ALMANAC. *Second Class postage paid at Palo Alto, California. Subscription price: $6 per year, payable in advance, or through membership in the Stanford Alumni Association.*

DAN ENDSLEY, '47, *Editor and Manager*
KAY DALEY, '48, *Activities Editor*

Send news notes and other editorial material, and all inquiries about advertising rates and deadlines, to the Stanford Review, Bowman Alumni House, Stanford.

Change of Address: Notify Review Circulation Department, Bowman Alumni House, Stanford, Calif.

Stanford Alumni Association

GUY R. NEELY, '38, *President*

H. MELVIN SWIFT JR., '48, LLB '49, *First Vice President*

BETTY JEAN CALFEE MULVANA, '45, *Second Vice President*

BOB PIERCE, '49, *Director*

All persons who have matriculated at Stanford University are eligible for membership in the Stanford Alumni Association. Dues of the Association (a non-profit corporation): Annual, $6; life, $115; student special life rate, $100. All privileges begin with initial payment. Associate membership (for second member of a family at the same address as a full member, carries all privileges except Review subscription): Annual, $4; life, $75; student special life rate, $65.

Members of the Alumni Executive Board:
L. HAROLD ANDERSON, '23, Palo Alto
EUNICE FORCE BARKELL, '33, Berkeley
LEWIS L. FENTON, '48, Monterey
LAWRENCE S. FLETCHER, '28, JD '30, Piedmont
Brig. Gen. DON D. FLICKINGER, '29, MD '33, Washington, D.C.
SEBELLE HARDEN VON HAFFTEN, '44, San Francisco
DOROTHY FITGER HAIGHT, '50, Beverly Hills
JAMES C. HAUGH, '42, San Diego
RUTH ELIZABETH TUTHILL HAWES, '28, Portland, Ore.
JOHN B. ISAACS, '31, Los Angeles
WARD C. KREBS, '34, Hillsborough
PAUL V. LORTON, '31, Atherton
JAMES B. MCKINNEY, '46, LLB '48, Sacramento
JOHN N. MITCHELL, '43, La Cañada
STUART W. MORSHEAD, '50, MBA '52, San Francisco
BETTY JEAN CALFEE MULVANA, '45, Bakersfield
GUY R. NEELY, '38, Phoenix
MIRIAM STROUT PERELLI-MINETTI, '32, MBA '34, Hillsborough
H. MELVIN SWIFT JR., '48, LLB '49, Sherman Oaks
LYLE M. NELSON, University Liaison Officer, Stanford

Recent Books from
STANFORD UNIVERSITY PRESS

PEARL HARBOR: WARNING AND DECISION

Roberta Wohlstetter. "The best book by far on the question of why we were surprised at Pearl Harbor."—Samuel Eliot Morison. "Detailed and objective . . . The author has rendered a great service."—*Saturday Review.* $7.50

EX-COMMUNIST WITNESSES

FOUR STUDIES IN FACT FINDING. *Herbert L. Packer.* "Fascinating case studies."—*Washington Post & Times Herald.* "Interesting and important."—*The New York Times.* "Fascinating reading all the way."—*St. Louis Post-Dispatch.* "A staggering job of research."—*Chicago Tribune.* $4.95

THE SIEGE OF LENINGRAD

Leon Goure. "An admirable piece of research. . . . A book I recommend most emphatically both to the student and the general reader."—Alexander Werth, *Saturday Review.* "An example of history in its most readable form."—*San Francisco News-Call-Bulletin.* $6.95

PRELUDE TO GREATNESS

LINCOLN IN THE 1850's. *Don E. Fehrenbacher.* "For any reader who knows the outlines of the story, this acute investigation of the Lincoln problem is of the greatest interest, and for anyone with a professional approach, this book is a 'must.' "—*The Times Literary Supplement.* $4.50

THE STORY OF FABIAN SOCIALISM

Margaret Cole. "Not only a history but a primary source. . . . An important book." —*The New York Times.* "Extremely valuable."—*The Manchester Guardian.* "A fascinating picture."—*The Times Literary Supplement.* $6.50

JAPANESE COURT POETRY

Robert H. Brower and Earl Miner. "Magnificent . . . It is impossible to write with restraint of this monumental study . . . A monument of scholarship and critical appreciation."—*East and West.* "Epoch-making book."—*Harvard Journal of Asiatic Studies.* $8.75

THE FAMILY LETTERS OF SAMUEL BUTLER, 1841–1886

Edited and Introduced by Arnold Silver. "A series of letters (two-thirds of which have never been published) exchanged among members of the Butler family . . . Enhances and elevates our impression of Butler as a man."—*The Nation.* $6.50

STANFORD SHORT STORIES 1962

Edited by Wallace Stegner and Richard Scowcroft, with the assistance of Nancy Packer. The best stories of the last two years from the Stanford Creative Writing Center, whose graduates include Eugene Burdick, Tillie Olsen, Robin White, Dan Jacobson, and Dennis Murphy. $3.50

THE LEVELLERS AND THE ENGLISH REVOLUTION

H. N. Brailsford. "An imperishable work of passion, scholarship, and art. This is a glorious book."—*New Statesman.* "A book of great power, beautifully organized and written."—*The Times Literary Supplement.* $10.00

THE THEORY, LAW, AND POLICY OF SOVIET TREATIES

Jan F. Triska and Robert M. Slusser. This is a systematic study of Soviet foreign policy from the point of view of Soviet international treaties, agreements, and conventions, based on a study of 2,000 treaties dating from 1917 to 1957. $10.00

Order from your bookstore, please

Recent Books from
STANFORD UNIVERSITY PRESS

DETERRENTS AND REINFORCEMENT

THE PSYCHOLOGY OF INSUFFICIENT REWARD. *Douglas H. Lawrence and Leon Festinger.* A new formulation of learning theory that inverts many of the customary ways of explaining experimental data. "Highly recommended."—*Library Journal.* $4.75

NEO-FREUDIAN SOCIAL PHILOSOPHY

Martin Birnbach. "An ambitious and thoroughly scholarly work that . . . is an excellent overall view of the psychoanalytic field as well as an astute and incisive searching into the meanings of the findings for social philosophy."—*Library Journal.* $6.00

FREEDOM AND RESPONSIBILITY

READINGS IN PHILOSOPHY AND LAW. *Edited by Herbert Morris.* "Meets a real and urgent need in the teaching of criminal law and appeals to me as meeting that need exceptionally well."—Roscoe Pound, *Fordham Law Rev.* "Belongs on every thinking lawyer's bookshelf."—*Student Lawyer.* $11.50

POPULAR ETHICS IN ANCIENT GREECE

Lionel Pearson. "An important work of literary criticism. . . . It is difficult in this short compass to speak of the virtues of Pearson's discussion of epic, didactic, and elegaic poetry, tragedy, comedy, and history."—*The Classical World.* $5.50

THE ETHNOHISTORY OF NORTHERN LUZON

Felix M. Keesing. In this study of marked cultural variations, existing theories of separate migrations and relationships are tested, and processes of cultural persistence and change are demonstrated. Based on early Spanish records. $7.50

THEORY OF LUBRICATION

WITH APPLICATIONS TO LIQUID- AND GAS-FILM LUBRICATION. *Nicolae Tipei. Edited by William A. Gross.* The first English edition of a book that has been recognized as a masterwork on the theory of lubrication. Includes new material and a new chapter prepared for this edition. $15.00

STUDIES IN APPLIED PROBABILITY & MANAGEMENT SCIENCE

Edited by Kenneth J. Arrow, Samuel Karlin, and Herbert Scarf. This collection of research papers continues and extends earlier work on the mathematical theory of inventory but emphasizes problems in the maintenance and repair of equipment. $8.50

BIBLIOGRAPHY OF THE IONOSPHERE

AN ANNOTATED SURVEY THROUGH 1960. *Laurence A. Manning.* Contains almost 4,000 abstracts of papers dealing with ionospheric radio propagation, radio studies of the aurora, ionospheric physics, and rocket studies of the upper atmosphere. $15.00

THE ART OF FALCONRY

BY FREDERICK II OF HOHENSTAUFEN. *Edited by Casey A. Wood and F. Marjorie Fyfe.* "A scholarly and beautiful book . . . A great contribution to the history of science . . . 186 beautiful plates."—*Bulletin of the History of Medicine.* "Definitely a book collector's item."—*American Scientist.* $17.50

DESERT WILDLIFE

Edmund C. Jaeger. "A wonderful insight into the life and habits of several of the dwellers of the desert . . . Extremely interesting reading. . . . Excellent photographs and many interesting line drawings."—*Science.* "An ideal companion for a desert trip."—*San Francisco Examiner.* $5.95

Order from your bookstore, please

The Campus Scene

A Light Beam That Can Cut Diamonds

A team of Stanford Electronics Laboratories scientists led by Prof. Anthony E. Siegman has successfully received microwaves transmitted on a light wave carrier, thus taking a toddling step toward utilizing the enormous wide-band potentialities of laser-produced "coherent light" for communications.

Why is this important? Because light waves are much more reliable than radio waves, and almost infinitely greater in carrying capacity. For example, a single laser light beam could carry a hundred million television programs simultaneously. (This comparison is employed only to demonstrate laser potential, not to suggest that there is any great need to send a hundred million "Wagon Trains" flashing through space.)

Never having heard the word "laser" is no cause for chagrin; *nobody* had until it was first suggested in 1958 by Arthur L. Schawlow, now a Stanford physics professor, and MIT Provost Charles H. Townes. A laser generates single-frequency light waves, just as other devices generate radio waves of one frequency, producing a narrow beam of coherent light thousands of times more intense than sunlight. Ordinary or "incoherent" light is composed of many wavelengths, interacting and interfering with each other.

Lasers have untold applications. They might be used to "spot weld" tissues in surgery, transmit power to a satellite, possibly even ignite plasma in a controlled release of thermonuclear energy; 20 million times hotter than the sun, a focused beam can burn through any material—even diamonds. The implications of sophisticated laser utilization are thus awesome. The Siegman experiment, of course, is only one facet of laser research at Stanford. Laboratories all over the earth are feverishly seeking new laser materials and methods of using them.

A means of putting a microwave information signal on the light beam, or modulating it, was developed some time ago. What was missing was a way of correctly "demodulating" or receiving this information. This gap was filled when Dr. Siegman announced successful tests of two such devices and plans for a third.

Currently America's biggest radio telescope "dish," this web of steel and aluminum stands on a Stanford hilltop and soon will be used in radar astronomy research. Built by Stanford Research Institute with Air Force sponsorship, it will begin to explore the sun, moon, planets, and interplanetary gases with a 400-kilowatt radar probe planned for later this year.

Hoover Scholars and 'The Red Myth'

A new 13-week television series called "The Red Myth" based on the human and documentary resources of Stanford's Hoover Institution, is being released through the National Educational Television and Radio Center.

The series explores the history, theory, and practice of communism by means of film clips and re-enactments narrated by Witold Sworakowski, the Hoover deputy director. There is additional commentary by Stefan Possony, director of the Institution's international political studies program, and by other scholars.

"The Red Myth" was produced at Stanford for KQED, San Francisco's educational television station. It is currently being shown in Los Angeles on KRCA channel 4, on Saturdays from 4 to 4:30 p.m.

Roth Given Stanford's Highest Award

Stanford's highest award for service to the University has been conferred upon Almon E. Roth, '09, the institution's first comptroller *(Continued on page*

New Homecoming Home

Homecoming—on Nov. 10, day of the Stanford-USC football game—will afford alumni an opportunity to become familiar with a new "home"—Tresidder Memorial Union. Many of the day's activities will be centered around the new facility, according to Chairman Jim Rogers and his committee.

There will also be familiar things from past Homecomings—house decorations, a rally, and luncheons at fraternity houses and eating clubs.

M.S. and Ph.D. graduates will find room to expand at STL's new ultra-modern Space Technology Center, Redondo Beach, California, near Los Angeles International Airport.

Here, in an environment conducive to expanding your special interests, you will find thought provoking problems requiring the optimum of your talents. And, while associating with recognized authorities in your field, you will have the opportunity to see developed products of your endeavors in such vital space programs as OGO (NASA's Orbiting Geophysical Observatory), and in Titan and Minuteman ballistic missile programs.

If you are searching for space to expand your ideas, theories and thoughts, in a campus-like atmosphere, we invite you to investigate the technical specialties listed below: There is creative space for you at STL.

Theoretical Physics • Systems Engineering • Radar Systems • Experimental Physics • Applied Mathematics • Space Communications • Antennas and Microwaves • Inertial Guidance • Analog Computers • Solid State Physics • Computer Design • Telecommunications • Space Physics • Digital Computers • Guidance & Navigation • Electromechanical Devices • Engineering Mechanics • Applied Aerodynamics • Propulsion Systems.

Please contact your Placement Office for an application, or write to: College Relations, Space Technology Laboratories, Inc., One Space Park, Redondo Beach, California. STL is an equal opportunity employer.

SPACE TECHNOLOGY LABORATORIES, INC.
a subsidiary of Thompson Ramo Wooldridge Inc.

The Campus Scene

(Continued from page 4)

and a Board of Trustees member from 1940 to 1943. President Sterling made the presentation during the annual Freshman Convocation as the 1962 fall quarter began.

Fittingly, the ceremony took place in Frost Amphitheater. The 8,000-seat earthen bowl was built 25 years ago at Roth's suggestion by Mr. and Mrs. Howard Frost. The Frosts had been seeking a suitable memorial to their son, Laurence, who died of polio during his senior year.

ALMON E. ROTH

After leaving Stanford in 1937 Roth won an international reputation as a consultant on waterfront labor relations and shipping problems. He has served as president of the San Francisco Employers Council, attorney for the Waterfront Employers Associati president of the Waterfront Employers Association the Pacific Coast, and as adviser to several governm agencies. He and Mrs. Roth live in Hillsborough, a he is still active in several business ventures.

During Roth's 18 years as comptroller the Cor ration Yard was established, along with the Busin Office, central bookkeeping, and many other of w the late Ray Lyman Wilbur called "marked impro ments in Stanford's financial affairs."

Uncle Sam Aids Africa Book Project

NEARLY 100,000 badly needed textbooks and collate readers will soon be in use in secondary schools a teacher training colleges in Kenya, Uganda, Tang yika, and Zanzibar—thanks to the U.S. government a the 25 students who (Continued on page

Quotes From the Campus

. . . The ability of anyone to obtain true insights into the psychological make-up of a man by giving him tests and having an interview with him has never been successfully demonstrated . . . the best predictors of how a man will behave in the everyday world are facts about how he has behaved in the past.—*Dr. S. Rains Wallace, Life Insurance Agency Management Ass'n research director, as Cubberley Conference keynoter.*

There seems to be an impression that if your school doesn't have either team teaching, flexible scheduling, or teaching machines, you're just not fashionable. The fact is we lack knowledge in all these fields and we shouldn't proceed hastily until we know more.—*Prof. Robert N. Bush at conference for school administrators held at Stanford.*

Just because the sciences have been doubling the total volume of discoveries in every recent decade, it does not follow that basic textbooks have become outmoded . . . Understanding by students of recent developments can come only by patient study of fundamental laws of matter and energy . . . —*Dr. Frank B. Lindsay, chief of the California Bureau of Secondary Education, at the same conference.*

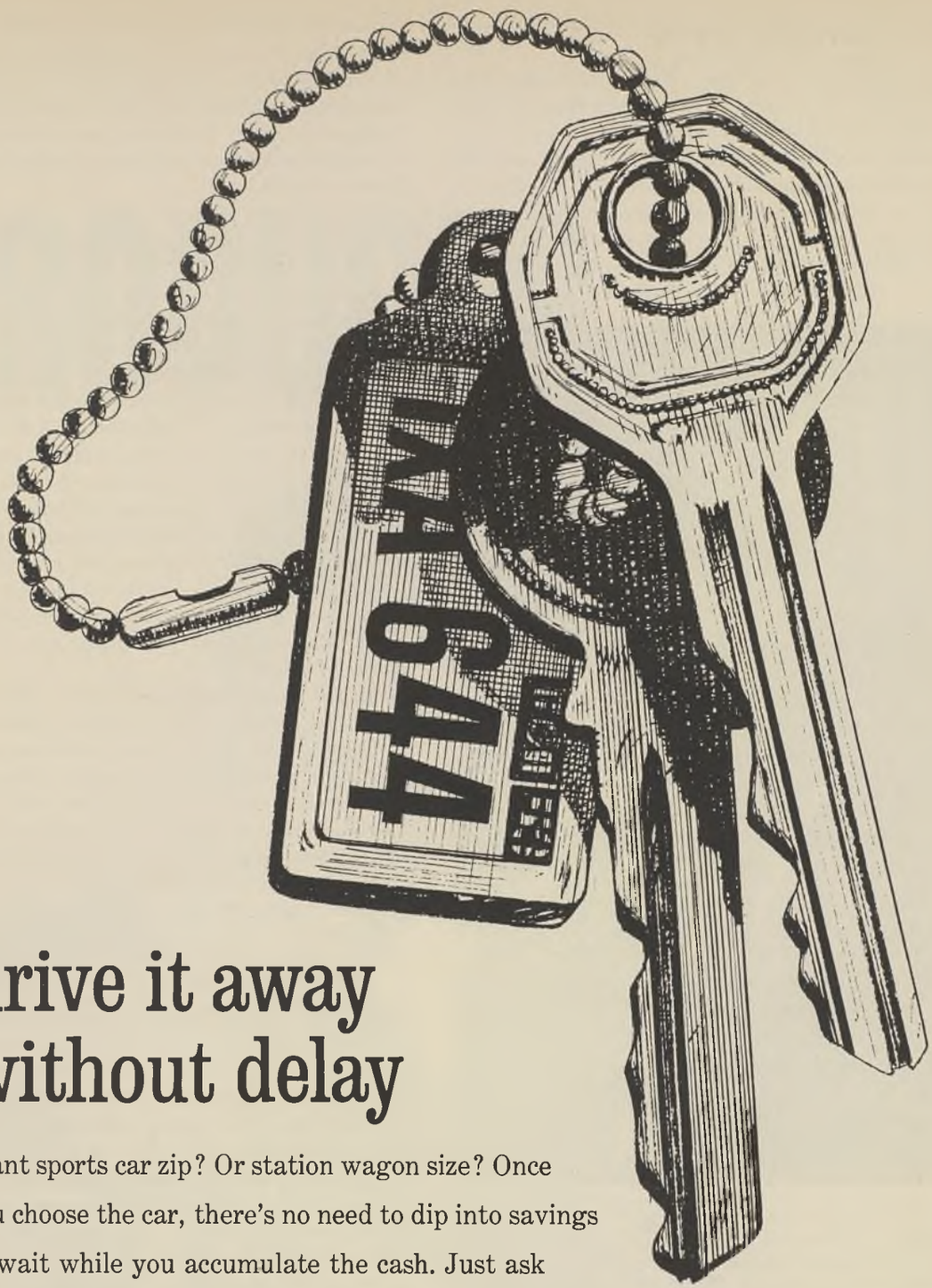
I believe . . . the tide is turning definitely away from nationalization of railroads or any other form of transportation . . . even Europeans are beginning to look, talk, and think about restoring private enterprise . . . —*Visiting Prof. E. Grosvenor Plowman, U.S. Steel Co. traffic vice president, at the Stanford Business Logistics Forum.*

The placing of unnecessary obstacles in the visitor' way reflects an archaic outlook, and is not conducive to the promotion of travel. In this context it is signifi cant, I think, that it is far easier for a British subject to visit Soviet Russia than the United States.—*Warre Titus, president of P&O–Orient Lines, to 50 top exec utives in the Transportation Management Progran at Stanford.*

International business cannot be run with corporate time left over from your domestic operation. You are not competing against amateurs but against some o the largest and most skillful merchants in the world.— *Walter B. Wriston, executive vice president of the First National City Bank, at the 20th annual Stanford Business Conference.*

Very frankly, I'm more concerned about how our products are doing "across the counter" in the free market of Hong Kong than how they are competing in Peoria, Ill. For the fundamental fact is that if we can't compete in Hong Kong, it isn't very likely we'l be competing favorably in Peoria for very long.— *Charles H. Percy, board chairman of Bell & Howell at the Stanford Business Conference.*

Today, strangely enough, the modern corporation . . . have become international-minded . . . It i rather workers' organizations that are hard-pressed to keep up with this new progressive spirit . . . — *Prof. William Gomberg, former labor union officia now on the faculty of the Wharton School of Finance University of Pennsylvania, at the Stanford Busines Conference.*



drive it away without delay

Want sports car zip? Or station wagon size? Once you choose the car, there's no need to dip into savings or wait while you accumulate the cash. Just ask your dealer for Wells Fargo Bankloan Plan financing!

Bankloan Plan

WELLS FARGO BANK

Formerly Wells Fargo Bank American Trust Company • Over 135 Offices in Northern California

The Campus Scene

(Continued from page 6)

spearheaded last year's "Books for Africa" drive. The group headed by student chairman Jim Haas ran into seemingly insurmountable obstacles; but finally, shipment costs were covered by a $20,000 contract with the Agency for International Development (AID) after the University itself guaranteed that the books would be properly started on their long journey.

According to Victor H. Skiles, director of the AID mission in Nairobi, the books "will have a significant impact on thousands of students, teachers, and gover ment officials." Paul R. Hanna, Lee L. Jacks profess of child education, is supervising the project for t University, and Peter Duignan, curator of the Hoov Institution's Africa Collection, is inspecting shipmen to insure that Africans will receive only the most usef books available.

In his 12 years at Stanford—as faculty resident of Stern Hall's Muir and Burbank Houses and as faculty adviser of *Sequoia,* the student literary magazine, as well as in the classroom—Wilfred Healey Stone, associate professor of English, has won a solid reputation for his "vigorous concept of a residential university," for helping to establish the "house plan" in Stanford dormitories, for his sympathetic support for student ideas which promote intellectual growth, and for his excellence in teaching. Official recognition of these contributions came to the former Navy pilot and ex-newspaperman when he received the 1962 Lloyd W. Dinkelspiel faculty award of $3,500, given annually for distinguished service to undergraduate education. The two awards of $300 each made to graduating seniors went to Lucy Dunbar Ames, an international relations major, and Oliver Ludwig "Jerry" Puttler Jr., a pre-medical student.

NIH Grants Establish Three Clinics

Two new grants to the Stanford Medical Center mal this institution's medical school the first in the count with three clinical research centers supported by t National Institutes of Health.

U.S. Public Health Service officials announced fe eral grants totaling $797,305—one of $267,305 to set u the first NIH clinic for study of premature infants a another of $530,000 to support a general research f cility in which certain major problems such as tiss grafting, growth and development, function of t nervous system, and resistance and susceptibility to i fection will be attacked over several years. Investig tions of new methods of treating cancer with X-rays a other radiation are already under way on a $943,4 grant made last year.

In the United States more than half of all deat in the first month of life are due to premature birt The Stanford program will emphasize use of electron equipment of the type developed for Project Mercu to obtain continuous records of key body functions.

Allocations of government funds cannot be co mitted over a long term, but it is expected that the t new clinics will operate at least seven years and recei support of about $6 million over that period.

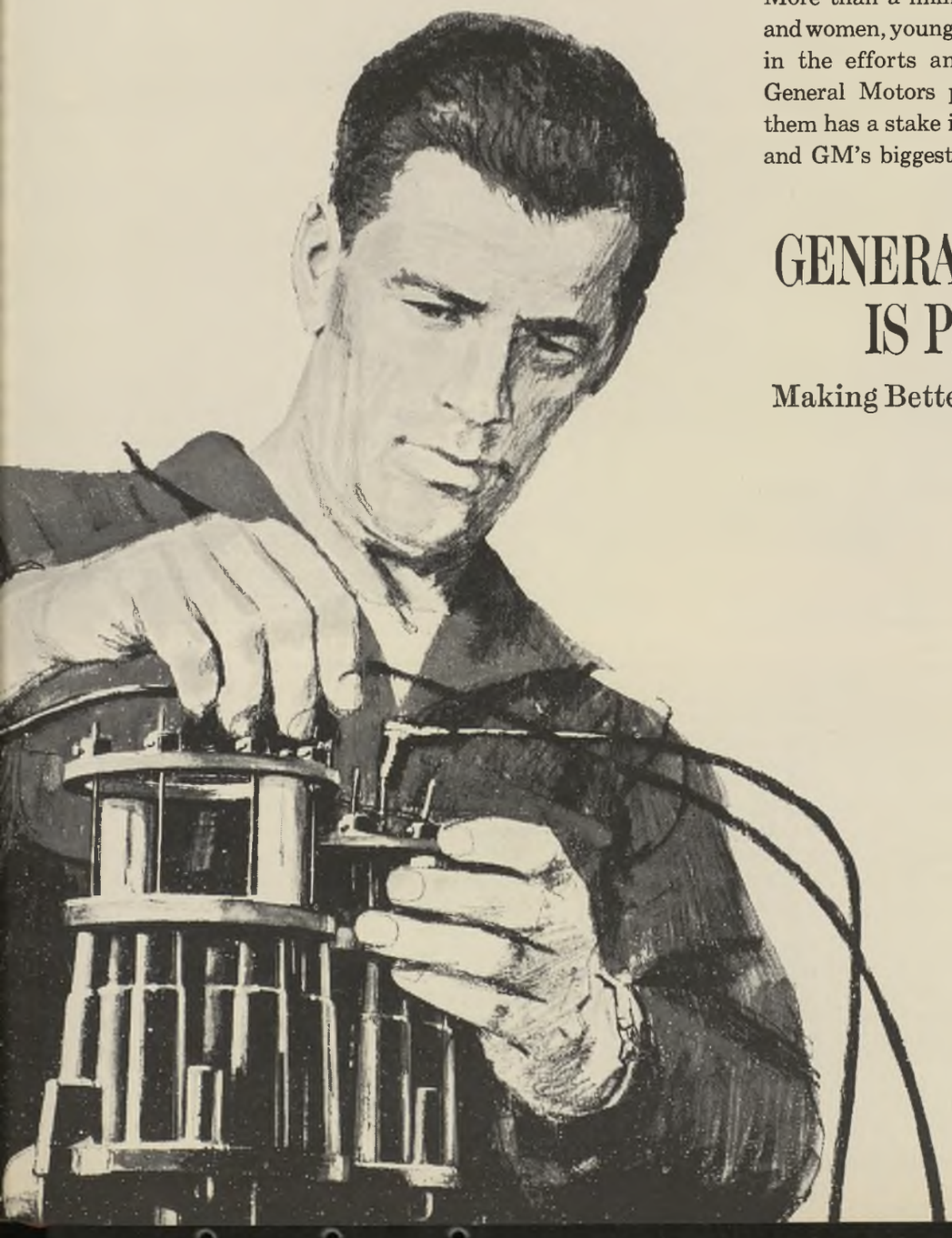
Not Enough Bite to Chew the Bark

What was counted upon as a key wedge in the late student attempt at campus tree-felling proved too blu to bite past the Administration's thick coating of pr tective bark—and if there is to be any crying in the be over this abortive lumbering venture, it will have to done off-campus.

At face value the student gambit was merely request that students over 21 be permitted to posse and consume liquor on campus, in the form of a stud referendum passed last spring by a landslide marg certainly many who voted for it were thinking only a quiet beer in the room. But while student opini on many matters has long been actively sought at St ford, sometimes students offer more advice than U versity officials really want, and acceptance is not co pulsory. Thus some referendum advocates consider it an ingenious step toward establishing solid stud prerogatives in the formulation of University policy.

In response a faculty committee said no, the A ministration said not a chance, and the Trustees stat flatly that the status (Continued on page

PRODUCER



This man is building a car. Not alone, of course. He's an employe in a General Motors plant . . . just one important producer in a team of more than six hundred thousand employes. He's energetic, progressive, reliable . . . knows his job and does it right.

It's people like this producer, far more than anything else, who are the key to General Motors. It's production people, supervisors, draftsmen, stylists, salesmen, engineers . . . people who design, decide, direct, DO!

More than a million shareholders, men and women, young and old, have invested in the efforts and productiveness of General Motors people. Every one of them has a stake in General Motors . . . and GM's biggest stake is in its *people.*

GENERAL MOTORS IS PEOPLE

Making Better Things For You

The Campus Scene

(Continued from page 8)

remains quo. In a letter to all undergraduates and parents before school opened, Dean of Students H. Donald Winbigler reported the Trustees' stand and added that the referendum "failed to take into account the complexity of the problem, while it created uncertainty about student responsibility for enforcement . . ."

The words "created uncertainty" have a euphemistic tone. The vote tally in effect announced: "If you want a liquor ban you'll have to police it yourself. We'll no longer enforce regulations that go beyond minimum requirements of state law."

On the theory that the Administration reacts best to pressure—the sharper and more embarrassing the better—it was fondly thought that this tactic would drape the Administration over a barrel. But it didn't.

It would be premature to suggest that students have accepted this turndown. Some of their more thoughtful leaders have adopted an ambivalent stance: they remain convinced that their real aims are righteous, but regret that they staked so much on a 20th century "whiskey rebellion." After all, "Give me beer or give me expulsion!" does not have quite the rallying idealistic ring of "Give me liberty or give me death!"

'Quiet' Months Net PACE $5 Million

ALMOST $5 million in gifts and pledges during the usually quiet summer months shot the PACE Program past the halfway point toward its $100 million goal just as the two-month round of area kickoff dinners for alumni was about to begin (see schedule below). Latest complete reports put the total at $52,230,099, including Ford Foundation matching grants.

Most recent gifts include:

Approximately $250,000 from Marvin Kratter, noted real estate entrepreneur, to endow a "visitors'" chair in European history to be occupied by scholars from abroad affiliated with a foreign institution.

A bequest of $135,837 from Margaret L. Potter, librarian at the Lane Medical Library for 40 years which will supply a perpetual income to the Lane Library. Miss Potter was completely dedicated to her work and had told colleagues she would leave most of her "retirement nest egg" to the University, but her modest scale of living made the amount a surprise.

$100,000 from Trustee Thomas P. Pike and his wife the former Katherine McCormick Keho.

$127,000 from the late George Havas of Oakland the East Bay PACE chairman until his death from a heart attack last March, for reconstruction of an engineering building to house the Division of Engineering Mechanics and other functions.

$100,000 to the Food Research Institute for studies of tropical Latin America—$46,000 from IBERSOM Belgian overseas research foundation, and the remainder from the Fritz Thyssen Foundation of Germany.

And the gifts listed above earned more than $235,000 in Ford Foundation matching grants.

During the first nine months of the University's fiscal year gifts from business and industry totaled nearly $1.9 million—45 percent above the previous year's corresponding period. Almost half of this amount came from firms based outside of California.

The $52 million in PACE gifts to date includes a total of $2 million to the Hoover Institution for an enlarged program of research on international communism and related topics that is already in operation. The Hoover's present holdings on the Russian and Chinese revolutions and the growth and spread of communism throughout the world are generally considered the outstanding collection in this field in the Western world, according to Director W. Glenn Campbell.

PACE has already provided about $9 million for strengthening the faculty, $5 million for various programs of student aid, $14 million for construction and renovation of buildings, and $10 million for continuing support of existing programs. Most of the remainder is unrestricted as to use.

October, November—hectic months for PACE workers staging dozens of regional kick-off dinners. The cities and dates:

ALBUQUERQUE—Nov. 13
BAKERSFIELD—Oct. 23
BOISE—Oct. 30
BOSTON—Nov. 2
CHICAGO—Oct. 29
CHICO—Nov. 5
CINCINNATI—Oct. 25
CLEVELAND—Nov. 9
DALLAS—Oct. 11
DENVER—Oct. 17
DES MOINES—Nov. 28
DETROIT—Nov. 7
EL PASO—Nov. 14
EUREKA—Oct. 24
FRESNO—Oct. 8
HOLLISTER—Oct. 31
HONOLULU—Nov. 27
HOUSTON—Nov. 28
KANSAS CITY—Oct. 23
LOS ANGELES/ORANGE COUNTIES—Nov. 1 (4 simultaneous dinners)
MARYSVILLE—Oct. 16
MEDFORD—Nov. 15
MERCED—Oct. 10
MIAMI—Nov. 26
MILWAUKEE—Nov. 8
MINNEAPOLIS—Nov. 13
MODESTO—Oct. 25
MONTEREY—Nov. 8
NAPA—Oct. 23
NEW YORK—Oct. 24
OKLAHOMA CITY—Nov. 16
OMAHA—Nov. 27
PHILADELPHIA—Nov. 29
PHOENIX—Nov. 27
PITTSBURGH—Oct. 30
PORTLAND—Nov. 20
REDDING—Oct. 15
RENO—Oct. 2
RIVERSIDE/SAN BERNARDINO—Oct. 11
SACRAMENTO—Oct. 3
ST. LOUIS—Oct. 24
SALEM/EUGENE—Nov. 14
SALT LAKE CITY/OGDEN—Oct. 29
SAN DIEGO—Nov. 26
SAN FRANCISCO BAY AREA—Oct. 18 (8 simultaneous dinners)
SAN LUIS OBISPO—Nov. 20
SANTA BARBARA—Oct. 10
SANTA CRUZ—Oct. 30
SANTA ROSA—Oct. 25
SEATTLE—Nov. 19
SPOKANE—Oct. 12
STOCKTON—Nov. 12
TACOMA—Nov. 13
TUCSON—Nov. 12
TULARE—Oct. 11
TULSA—Nov. 15
VENTURA—Oct. 24
WASHINGTON, D.C.—Oct. 25
WICHITA—Oct. 22

1953: JOE CHEZ NAMED TO STANFORD BASEBALL HALL OF FAME

1962: JOE CHEZ NAMED TO NEW ENGLAND LIFE HALL OF FAME

Stanford's great pitcher Joe Chez (won 31—lost 4) now wins in a different field. Here he and Chris Marelia, Trust Officer of the United California Bank, plan a financial security program for a common client. Both men are members of Sacramento's Estate Planning Council.

t's read between the headlines: Joe Chez entered the arine Corps after Stanford and, in addition to his regular ties, was appointed battalion insurance officer. "My job en was explaining the benefits of National Service Life surance," says Joe, "and I came to like the idea of giving ople personal, individual help. That's one reason I decided life insurance as a career. Another reason was that in life surance I knew my efforts and ability would pay off directly earnings." ■ Joe started with other company, came to New gland Life in 1958, and was med First Year Star Producer by this Sacramento Agency. Since then he has earned membership in our Leaders Association . . . and, more recently, New England Life's Hail of Fame. This latter achievement involves the sale of over one million dollars of life insurance during a single year. ■ Joe will be making other headlines in the years to come. But what about you? Does a career like that of Joe Chez appeal to you? If so, ask us to send more information about the opportunities that exist for men who meet New England Life's requirements. Write to Vice President John Barker, Jr., 501 Boyiston St., Boston 17, Massachusetts.

NEW ENGLAND LIFE
FOUNDER OF MUTUAL LIFE INSURANCE IN AMERICA IN 1835

ese Stanford men are New England Life representatives:

Kenneth Elliott, '26, Los Angeles
n. Eugene Hays, CLU, '26, Gen. Agt., Boston
ert M. Adams, CLU, '29, Los Angeles
fferson D. Nowell, '40, Los Angeles
lliam B. Jadden, CLU, '41, Los Angeles
Melvin P. Gundlach, '48, Los Angeles
Jack A. Martinelli, CLU, '48, Gen. Agt., San Francisco
Robert R. Teall, CLU, '48, Orlando
Earle L. Patten, CLU, '49, Agency Manager, Fresno
W. David Phillips, '49, Fresno
Robert D. Childs, CLU, '50, Santa Ana
Joseph F. Pickering, CLU, '50, Palo Alto
David G. Hoffman, CLU, '51, Menlo Park
Joseph M. Chez, '53, Sacramento
William E. Choate, CLU, '53, Los Angeles
John C. Kern, '55, San Francisco

The largest integrated organization in the country specializing in infrared and optical guidance systems—systems for search, automatic tracking, and fire control against surface and airborne targets, now has engineering openings available in the . . .

ASTRIONICS DIVISION

of

AEROJET

—

Azusa, California
(25 miles east of Los Angeles)

Immediate requirements for:

THERMAL DESIGN ENGINEERS

in the areas of . . .

Heat Transfer Analysis of Solar Furnaces

Heat Transfer in Electronic Components

Rocket Nozzle Heat Transfer

Development of Refrigeration Systems for Space Applications

Optical System Temperature Control

Experimental Verification of Radiant and Conductive Heat Transfer in Space Systems

Infrared Detector Cooling

Passive Temperature Control of Satellites

Space Radiator Analysis and Design

MUST BE U.S. CITIZEN

—•—

For information write today to:

MR. R. S. LAWRENCE

6352 Irwindale Ave.
Azusa, California

AEROJET-GENERAL CORPORATION

A subsidiary of the General Tire & Rubber Co.

AN EQUAL OPPORTUNITY EMPLOYER

CLUB CALENDAR

Tuesday, Oct. 16

Los Angeles Women—Tea—Brig. Gen. Don D. Flickinger, speaker.

Thursday, Oct. 18

Stanford Nurses Club—Program Meeting, 7:30 p.m., Bowman Alumni House—Dr. Chester Berry, speaker; including tour of Tresidder Memorial Union.

Tuesday, Oct. 23

East Bay Women—Program Meeting, 10:00 a.m., Lake Merritt Sailboat House—Dean of Women Lucile Allen, speaker.

Wednesday, Oct. 24

East Bay Men—Luncheon Meeting, 12:00 Noon, Peluso's—Robert L. Woodcock, speaker.

Saturday, Oct. 27

Stanford Club of Los Angeles—Silver Fizz Party (and buses to Stanford-UCLA game)—Biltmore Hotel, from 11:00 a.m.

Stanford Junior Alumni of Southern California—Post-Game Party—Biltmore Hotel, immediately following the UCLA Game.

Riverside—Bus Trip to Stanford-UCLA Game.

San Fernando Valley—Bus Trip to Stanford-UCLA Game (box lunch preceding game).

Seattle—Cocktail Party—Seattle Tennis Club, from 5:00 to 7:00 p.m.

Saturday, Nov. 3

Peninsula—Fall Cocktail Party—at the Bandini's (Carolands Mansion) in Hillsborough.

Portland—Festivities in connection with Stanford-Oregon Game.

Wednesday, Nov. 7

East Bay Men—Luncheon Meeting, 12:00 Noon, Peluso's—Mayor John Houlihan of Oakland, speaker.

Saturday, Nov. 10

Bay Area Juniors—Post-Game Party (following USC Game)—at Rickey's-Hyatt House.

Monday, Nov. 12

San Benito County—Dinner Meeting, at Cademartori's—Payton Jordan, speaker.

Tuesday, Nov. 13

Pasadena Women Juniors—Program Meeting, 7:45 p.m., at 360 Newhaven Rd., Pasadena—Program on flower arranging by Barrington Florists.

Friday, Nov. 16

Pasadena Women—Luncheon Meeting, Huntington-Sheraton Hotel—Professor David M. Potter, speaker.

Sacramento Men and Women—Big Game Cocktail Party, Del Paso Country Club

Tuesday, Nov. 20

Fresno—Big Game Party (with Cal alumni)—A Dinner—Chuck Taylor will represent Stanford.

Friday, Nov. 23

San Francisco—Big Game Luncheon at Olympic Club, 12:00 Noon.

Saturday, Nov. 24

BIG GAME DAY—with parties planned in New York, Washington, Tulsa, Phoenix, Tokyo, Riverside—and buses to the game sponsored by San Francisco Women, San Mateo Peninsula, Palo Alto, and Foothills.

There may be other celebrations—keep in touch with your officers.

Monday, Nov. 26

East Bay Men—Post-Big Game Stag Party—honoring the coaching staff.

Thursday, Nov. 29

East Bay Women—Bridge Party at the Garden Center at Lake Merritt.

Nice Guys

"Nice guys," said Leo Durocher a few years ago, "finish last." But the *de facto* rebuttal, ever more obvious and persistent, exists in the person and performance of Stan Musial.

The record books tell me Musial is never last insofar as Durocher is concerned. It's equally obvious that he is accepted by all as a nice guy.

Miss Mirrielees

He's always been that in my book. But his stock went even higher a few weeks ago at the time of the "Stan Musial night" in New York. Who else has been given a "night" in an enemy city? And what other athlete foreswore the loot lining of his own pockets for the sake of an opportunity he never enjoyed, and in the name of a record book rival?

A Wire Service story tells me "'Musial's night' will be unique in that he will not receive the usual automobile and personal gifts." Instead, the proceeds will endow a scholarship at Columbia, "to help a deserving boy through Lou Gehrig's college."

Stan Musial is still with us. But two of Stanford's nicest "nice guys," also first, not last place finishers, have left us—Paul Edwards, Edith Mirrielees.

You who knew them will miss them in your own thoughts and words. My thoughts are there, but the words can't match those of Sterling on Edwards and Stegner on Mirrielees: ". . . 'til the last, lived his life fully in service of others than himself . . . for he was, in truth, an Uncommon Man."

"But much more than the editor's skill and the teacher's patience was the respect and affection she gave her students. She liked them, she gave them her days and her eyes and her mind, and by some magic of her own she made them deserve her attention."

And, finally, the words of a man who, with his wife, made a gift in memory of these big leaguers: "I can think of no other two people I know of whom I have never heard an unkind word said."

In my book, among those who finish first—Edwards, Mirrielees, Musial.

Nice guys. . . .

David S. Jacobson

General Secretary

outstanding success in one short year

OUR TWO-BUTTON SUIT

for the man who desires slimmer lines

Brooks Brothers two-button suit is not a three-button model with one button removed...but a suit specially designed for the man who has broader shoulders and fuller chest than average. The jacket is more suppressed at the waist and smaller over the hips...the trousers, too, are cut somewhat smaller in the waist and seat...giving a slightly more tailored look and slimmer lines. Made in our own workrooms, of handsome unfinished and clear-finished worsteds, navy serge, and oxford grey flannel, it is unmistakably Brooks in appearance. Coat, vest and trousers, from $135

Prices slightly higher west of the Rockies.

ESTABLISHED 1818

Brooks Brothers

CLOTHING

Men's Furnishings, Hats & Shoes

201 POST ST., COR. GRANT AVE., SAN FRANCISCO 8, CAL.

727 WEST SEVENTH STREET, LOS ANGELES 17, CAL.

NEW YORK • BOSTON • PITTSBURGH • CHICAGO

Stanford Family Forum

Tribute to a Great Lady

YOUR COLUMN in the June-July *Review* was a very fine tribute to a very great lady, and will stir a lasting remembrance of Miss Edith Mirrielees. She had a wide acquaintance in the eastern United States, and her passing was noted among faculties of many universities, which have regarded her as a master of short story-writing instruction.

I had the good fortune to know Miss Mirrielees both on and off the Stanford campus, in Paris and in Washington, and once as a fellow-passenger on a trans-Atlantic liner when she returned from her service with the American Red Cross after World War I.

Her extraordinary qualities were a deep personal sincerity (she often stressed Thomas Carlyle's sincerity in her English 2 course); an intuitive perception of other people's problems, and a sense of droll humor which took the edge off the sharp criticism which she sometimes might have to make for professional reasons against the countless manuscripts that crossed her desk.

I remember that Miss Mirrielees' most prized souvenir of World War I was a plaster replica of one of the gargoyles on Notre Dame. When in a droll mood she would show this to friends, and leave them to conjecture about the attraction of the grotesque water-spout.

In 1919 I gave to Miss Mirrielees a curious ivory brooch, which I had found in the Grand Bazaar at Constantinople, feeling a personal indebtedness to her for her instruction at Stanford. She countered with an offer to give me the gargoyle, which I did not accept. Forty years later she mailed the brooch to me, with the request that I give it to my daughter. She was a person who remembered and will be remembered by all who knew her well.

HARRY W. FRANTZ, '17
Washington

HE WAS no scholar. He lived for football and baseball and noisy bull sessions, and how he hated to get up in the morning!

Miss Edith Ronald Mirrielees died at her home on the Stanford campus on June 3, 1962.

"Miss Mirrielees," he said, remembering back. "You know when I was a sophomore I took something called History of English Literature with Miss Mirrielees, five hours a week at 8 o'clock. And on those five days I rolled out of bed and pedaled to the campus, scared I'd be late and not get to my seat in the front row. Why, I wouldn't have missed that class, not for the Stanford Axe.

"She would come into that drab classroom, little and slim and drab herself until she began to speak. In that gentle tolerant voice she could give even to us dumb guys some understanding of the greatness and meaning of her world, and for me at least, a lifelong appreciation of the quality of a fine mind.

"I remember at the end of the course the class wanted to give her a present and we decided on a watch and there was lively discussion as to what we would write on the card. With admiration—with gratitude—with lasting inspiration—with . . . ? When she finally got it, it just said 'With Love.'"

NAME WITHHELD, '08
Palo Alto

The Myopic Ambassador

I HAVE READ with interest Graham Stuart's article on "Stanford's Seven Ambassadors" in the April *Review*. I was particularly warmed by the paragraph describing Ambassador Durbrow's badminton matches. His garden and badminton court, both visible across the street from our house in Saigon, were indeed busy places on Sunday evenings. I also had the pleasure of losing out rather early in that 1960 tournament.

"Durby's" interest in sports did not end there. He kindly consented to [illegible] as plate umpire for a softball ga[me] held on Washington's Birthday, 19[62] as part of our "Community Day." ('T[he] usual Fourth of July celebration wo[uld] have fallen in the midst of Vietna[m]'s rainy season.) The ambassador p[er]formed his few innings admirably, b[ut] the good-natured spectators could[n't] resist reminding him that even amb[as]sadors can suffer from myopia in su[ch] a role!

JOHN W. KIMBALL, '[illegible]
Sarajevo, Yugosla[via]

Completion of a Course

IN NOTING the number of graduates [in] "Strictly Personal" who report co[m]pleting specialized courses, I feel co[m]pelled to offer my news. I recent[ly] completed the "Preparation for Chil[d] birth" classes at Sequoia Hospital [in] Redwood City and was presented w[ith] a 7 lb. 13 oz. diploma named Kar[en] Kay on May 11. She is our first chi[ld].

In addition to our daughter, o[ur] home is new to us also. It is locat[ed] in San Carlos where the new dad[dy] Murray Swedenborg, '52, MBA '56, [is] associated with Litton Industries. [He] previously taught world history [at] Woodside High School.

Having hesitated previously to su[b]mit news to the *Review* because it do[es] not state specifically where to send [it] I hope this will reach the proper des[ti]nation.

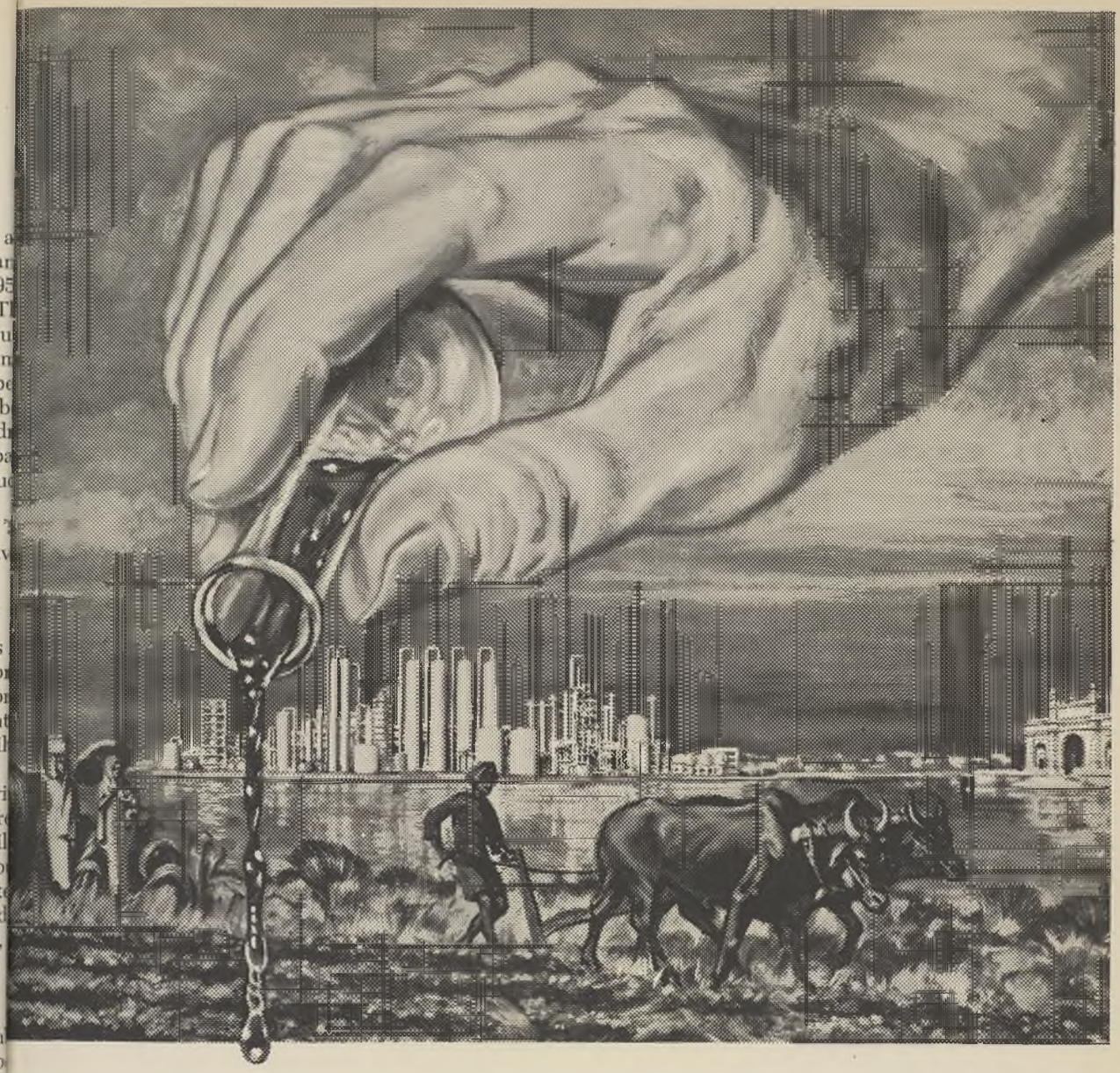
LENITA HOLIDAY SWEDENBORG,
San Carl[os]

Note: Just send it to Strictly Personal, Stanford Review, Bowman Alumni House, Stanford, Calif.

Salud to Alumni Almanac

CONGRATULATIONS on the Alumni [Al]manac. It is not only well conceive[d] but well done. Fills a need in an i[n]formal way, and provides addition[al] space in the *Review*. Salud!

ROYAL ROBERT BUSH,
San Francis[co]



Science helps build a new India

Oxen working the fields . . . the eternal river Ganges . . . jeweled elephants on parade. Today these symbols of ancient India exist side by side with a new sight—modern industry. India has developed bold new plans to build its economy and bring the promise of a bright future to its more than 400,000,000 people. ▶ But India needs the technical knowledge of the western world. For example, working with Indian engineers and technicians, Union Carbide recently made available its vast scientific resources to help build a major chemicals and plastics plant near Bombay. ▶ Throughout the free world, Union Carbide has been actively engaged in building plants for the manufacture of chemicals, plastics, carbons, gases, and metals. The people of Union Carbide welcome the opportunity to use their knowledge and skills in partnership with the citizens of so many great countries.

UNION CARBIDE

A HAND IN THINGS TO COME

WRITE *for booklet B-50 "The Exciting Universe of Union Carbide", which tells how research in the fields of carbons, chemicals, gases, metals, plastics and nuclear energy keeps bringing new wonders into your life.*
Union Carbide Corporation, 270 Park Avenue, New York 17, N.Y.

Faculty and Staff

Too Many Courses?

A LIBERAL ARTS college may be offering more courses than is good for it—financially and educationally—according to Prof. Lewis B. Mayhew of the School of Education.

An end to over-specialized courses might directly result in an increase in faculty salaries, says Professor Mayhew. He notes that surveys show that faculty salaries are intimately bound to the number of courses offered and that "if the number of courses can be reduced with an attendant increase in average class size, it is possible over a period of years to reduce the number of faculty members needed and to raise faculty salaries."

That the need for increased salaries is there is cited in figures from a national survey covering the period from 1939 to 1957; during this period the buying power of college professors dropped by 8.5 percent, while in many professions it increased by over 50 percent.

The educational effectiveness of schools decreasing the number of courses in its curriculum need not suffer, says Professor Mayhew. A prime argument for offering a highly diversified curriculum is to prepare students for graduate work. However, few liberal arts, teachers' or community colleges send an appreciable number of students to graduate school.

Communism by Genocide

ONLY THROUGH a strategy of genocide can Communism achieve world domination, Dr. Stefan Possony of the Hoover Institution told a recent Institute on Communism for Teachers and School Administrators in Los Angeles.

STEFAN POSSONY

Even in the extremely unlikely event that the Free World surrendered without firing a shot, he explained, Russia lacks the manpower necessary to assume tight control on a global scale. Its only means of preventing world-wide resistance movements and guerilla wars lies in the "utterly ruthless use of nuclear weapons." Possony added that at present "it is self-evident that the Soviet Union does not have the power to risk total war." But, he noted, they have proven themselves masters in the art of protracted conflict.

The sooner the West realizes that world domination remains the steadfast goal of Communism, the easier it will be to prevent Soviet success. "The atom has provided the Communists with a weapon system through which, for the first time, world-domination has become feasible. But the atom in the hands of the Free World, if effectively used for protracted deterrence, would forestall the ultimate victory of the Communist world revolution," he concluded.

Educational TV—a Plus

JUST NINE years old, educational television has made a "solid and significant impact on America," a two-year audience survey by the Institute for Communication Research has revealed.

A study was made of eight representative educational stations by Institute Director Wilbur Schramm, Research Associate Jack Lyle, and five staff members. It shows that the curve of ETV development is upward.

Already, ETV supplies a part of the education of nearly three million school children and attracts 10 to 24 percent of the adult viewers in every community where it is visible, the study showed. (These viewers watch at least once a week —another 30 or 40 percent watch it "occasionally.")

A broadcaster's "dream" audience—the viewers are "better educated than the average citizen, more articulate, better informed, more upwardly mobile, culturally and civically the most active persons in the community."

It was clear from the study that ETV viewers were intensely loyal, but wished the station had a little more money to hire top bracket professional help, to maintain high production standards, to

WILBUR SCHRAMM

stay on the air longer, and broadc programs that would be a "little more f a little more interesting, and a little m challenging." This, say the researche is a clear signal to get better financed

Ten years ago there were no ETV s tions; soon there will be 70. It has wo beachhead—but stands at a crossroa concludes the report. If it rests, it will come more of a channel for school t for community broadcasts; if it g ahead, it will need more money to h more and better programming.

Honorary Degrees

TWO NOBEL LAUREATES and a dist guished emeritus professor of politi science received honorary degrees fr their alma maters in June.

The City College of New York c ferred upon Robert Hofstadter, profes of physics and Stanford's newest No Laureate, a doctor of letters degree an bronze medal bearing his likeness. O the 11th person to be so honored in school's 115-year history, he also deliver the commencement address. The me bore the inscription "Nobel Laureate the City College."

Dr. Arthur Kornberg, a 1959 No Prize winner and executive head of department of biochemistry at Stanfo received the doctor of science degree fr the University of Rochester, from wh he obtained his MD in 1941. Included the citation, "his brilliant (work) awes imagination with its forecast of men's c trol of genetic factors."

A leading authority on political part and organization, Thomas S. Barclay, pre fessor of political science, emeritus, ceived an honorary doctor of laws deg from his alma mater, the University Missouri. He taught at Missouri fr 1920 until coming to Stanford in 19

Bell System instructor George Templeton, left, discusses maintenance problems of a teletypewriter printing unit with Henry A. Louz of Surinam, who has come to this country to receive advanced communications training.

Sharing our communications knowledge with new friends from other lands

Henry Albert Louz, shown at right in the picture above, is a communications technician from Paramaribo, Surinam (Dutch Guiana).

Mr. Louz is one of approximately 150 foreign nationals from two dozen different countries receiving technical training from the Bell Telephone System this year. The Bell System and a number of other American firms are cooperating with the State Department and the Agency for International Development in providing training to help these and other nations build their economies. Liaison agency for the telephone industry is the Federal Communications Commission.

When Henry Louz's six months course is over, he will return to his native land in South America to apply the latest in modern technology to problems in his field.

Henry is at the telephone school in Topeka, Kansas, studying all phases of teletypewriter service—the transmission of written information from point to point or via a network. It is training he could not get at home, and he is getting it side by side with Bell System employees.

At the same time, Henry is also learning about the American way of life. Through his new friends and acquaintances in Topeka he is meeting people, visiting their homes, seeing factories, museums, sports events. We hope he will return to Surinam with much more than a post-graduate course in communications.

We in the Bell Telephone System are proud of the good communications service that we provide at home—and we are equally proud to share abroad the know-how that makes fine communications possible.

BELL TELEPHONE SYSTEM

Owned by more than two million Americans

The American Party Battle for Congress in 1962:

Coat-Tails Aren't Enough

By Thomas S. Barclay
Professor of Political Science, Emeritus

Both U.S. parties have chosen the issues they will use to attract voter support this fall. But issues aside, both face certain basic facts of political life. It is from this latter standpoint that Professor Barclay, noted student of party politics, discusses the mid-term contest.

Whatever learned commentators have said to the contrary, most voters in the United States believe that a representative is selected to reflect the opinions and needs of the people who elect him. These may or may not coincide with the program of the Administration at Washington. As Senator Kerr recently stated with characteristic bluntness, "I love President Kennedy, but I love the people of Oklahoma more."

True, our constitutional system makes mandatory a mid-term election for all of the seats in the U.S. House of Representatives and for one-third of the seats in the Senate. The voter is automatically consulted 22 months after each Presidential Inauguration, when the record of the Administration in power is submitted for approval or disappro This arrangement is clocklike; it can be neither vanced nor postponed. But how the individ casts his ballot does not necessarily bear much lationship to either the President or his progra

The party which holds the White House d enter the mid-term contest with several import advantages. The President is the party leader, only officer elected on a nation-wide basis. monopolizes the place of leadership of the party power, and he has at his disposal unrivalled m ods of publicity, patronage, and various forms pressure upon members of the Congress. In c tain districts, where the National Administratio strongly supported, candidates for the Cong will hasten to pledge allegiance to the Admini

tion, thus becoming its beneficiary and members of the coat-tail contingent. But a President's coat-tails, however broad, never contain enough material to drape everyone who wants a new suit.

A mid-term election differs from a Presidential election in several significant aspects. The centripetal force and temporary unity of the latter contest are lacking. In many districts, candidates are "on their own" and have little or nothing to do with the national organization or leadership. Emphasis is upon issues and interests which concern the state or the respective districts. These are frequently of greater importance to legislators than the categorical imperative of party and party discipline—or than appeals to support the policies of the Administration.

In domestic affairs Congress frequently becomes, in Burke's phrase, "a confused and scuffling bustle of local agency." It is thus difficult to make a mid-term election a conclusive test of the program of the Administration, or even of the personal popularity of the Chief Executive. It is abundantly clear in Congressional contests that our major parties are in fact loose federations of state or sectional groups. This situation accentuates the difficulty of enforcing party responsibility and unified party action.

The 1962 campaign to control the 88th Congress reveals several basic factors which characterize the American party system and which have become institutionalized in the process of government.

PARTY DIVISION in the House today is 262 Democrats, 174 Republicans, and one vacancy. In the Senate are 64 Democrats and 36 Republicans. Approximately one-half of the Democrats in the House represent Northern and Western districts; this group supports most of the recommendations of the Administration in domestic legislation. The other half are from Southern or Border states. The opposition to important domestic policies is usually, but not always, found among members from these

regions. Many of them represent safe districts, hold chairmanships of powerful committees, and neither seek nor rely upon support from the White House. A coalition of Southern and Border Democrats with Republicans can control the action of the House—as recent Presidents have learned from the hard book of experience.

A tentative appraisal by party strategists of elections for the Senate, involving 39 seats, indicates that the Republicans are hopeful of gaining seats in one or more of the following states: Alaska, Colorado, Idaho, Pennsylvania, and Wyoming. The Democrats are confident of winning back Connecticut and regard as distinctly favorable the party's chances in Kentucky, Maryland, Utah, and Wisconsin. Regardless of the results in November, the Senate will remain under Democratic control.

There are important contests for Governor in five states, including California, Michigan, New York, Ohio, and Pennsylvania. It is traditional in American politics that in a Presidential election control of the Governorship of a large state is an advantage. Of the five, only New York presently has a Republican Governor. Democratic incumbents, however, face strong GOP opponents, including Richard M. Nixon in California, George Romney in Michigan, and William W. Scranton in Pennsylvania.

OBSERVERS of American party government have long recognized the difficult position of the minority party. It has no recognized national leadership; the defeated candidate for the Presidency is a titular, not an actual leader. The party leaders in the House and Senate endeavor to supply a Congressional leadership or direction, and this may or may not be effective. In the 87th Congress, Senator Dirksen and Representative Halleck have successfully maintained a considerable degree of party unity and discipline among the Republican minority, and in obstructing part of the domestic program of the Administration. This is, of course, one of the functions of the opposition party.

In Congressional elections chief attention and appeal are confined to the marginal districts. A marginal district is one which the incumbent won by less than 55 percent of the vote. In the election of 1960, Republicans were successful in 48 marginal districts; the Democrats captured 39. If the Republicans are to make substantial gains in N vember they must retain control not only of t safe districts and a majority of the 48 margin ones, they must also win in districts presently he by Democrats. It can be assumed that a substanti portion of Republican effort will be concentrat in the 39 Democratic marginal areas.

The Republican assignment is a formidable o complicated by the facts of reapportionment: se eral states have lost House seats. Most of the gai have gone to states where Legislatures controll by Democrats have drawn the new boundari Political boundaries are not normally carved out a way that will damage the interests of those doi the carving, whatever their party label.

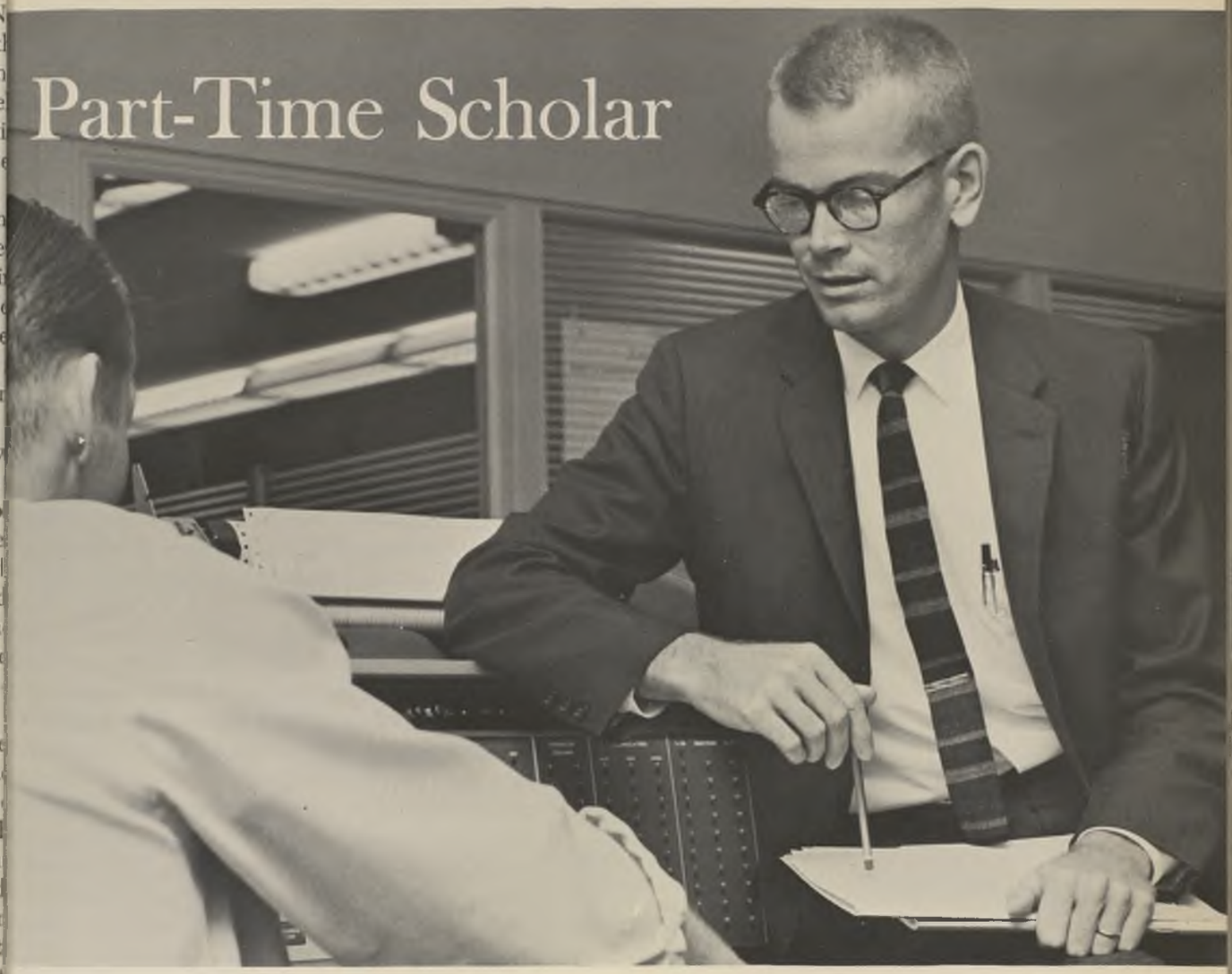
Democratic strategy will be directed along tw main lines. First, an effort will be made to regain least several marginal districts lost to the Repub cans in 1960. Second, Democratic leaders will re on 1961 reapportionments, now in effect for t first time, to yield dividends. Chief interest is d rected toward California, which secured eight a ditional House seats, and Florida, which garner four. The November results in California are national significance.

In the 1961 session the Democratic-controll California Legislature passed, and the Govern signed, a bill increasing from 30 to 38 the number Congressional districts. As was to be expected, t districts were so arranged as practically to insu Democratic advantage in seven of the eight ad tional districts. Further, the boundaries of existi districts were so redrawn as to increase Democrat chances of defeating four Republican incumbent Thus, a gain by Democrats in the House of 11 sea from California would be of material assistance providing for the Administration a needed a workable majority. The present party division the California delegation is 16 Democrats and Republicans.

At stake also is the Senate seat of incumbent R publican Thomas H. Kuchel. Nationally, in opinion, the Republicans will be satisfied if th can hold their present Senate strength and possib win two additional seats.

THE PROPER ROLE of the President in a Congre sional election is a matter of dispute. H direct participation is on (*Continued on page 5*

Part-Time Scholar



THE YOUNG MAN discussing a computational problem in his firm's laboratory is John A. McLaughlin (above, right), a development engineer with International Business Machines Corporation in San Jose. As one of more than 400 corporation employees pursuing part-time programs of graduate study at Stanford under company sponsorship, he symbolizes a still-new trend in graduate study.

More than 30 forward-looking concerns conduct such programs here—IBM, General Electric, Varian, Lockheed, Hewlett-Packard, and others. Procedures vary, but in general this is the pattern: the company chooses from among qualified employee applicants, pays their tuition, and pays Stanford a matching sum for overhead costs. Those selected continue on their regular jobs at full salary but receive time off to attend classes. Travel time is normally included; study time usually is not.

McLaughlin, a 1953 Northwestern graduate and an IBM employee since 1956, has already earned a Stanford MS degree in this way. He hopes eventually to win his PhD in electrical engineering. It will take a long time and a lot of hard work. But he has a wife and three children; without help, most men with family responsibilities lower their career sights.

By such programs of positive co-operation with private enterprise and other segments of our complex technological society, Stanford helps provide superbly trained leadership America badly needs.

SOME of my BEST FRIENDS are . . . BUT—

By Bruce Bliven

America's intellectuals would be far more useful if they would quit wringing their hands over the state of our mass culture and help improve it, maintains Bruce Bliven,'11. The author, a noted U.S. writer and editor for nearly half a century, now makes his home on the campus.

Nowadays it is fashionable to wring hands over what mass communication is doing to American society. Whenever I find hands being wrung I have an almost irresistible temptation to join in—but in a matter so important it is worthwhile to stop a moment and see whether the handwringers really know what they are doing.

What is the indictment of mass communication? That the product is superficial, shallow, not a true picture of life; that it makes the communicatee feel cultured when he is not. Prof. Daniel J. Boorstin of the University of Chicago says that it creates fictitious events to report, and *Time* magazine speaks in particular of "non-books" put together by me other than Mary Heaton Vorse's famous recipe c ing for someone's applying the seat of the pants the seat of the chair until a book is written.

The purpose of most of the mass media, we told, is just to sell goods; to paraphrase a comm complaint, they are used by greedy crooks w hypnotize fools to sell shoddy and unneeded m chandise. If what is said about the printed wo is true, it may be a good thing that Johnny c read—if in fact he can't.

Television, the handiest whipping boy just no is supposed to debauch our children with cri and violence. The five hours a day and more t the average TV set is turned on are making c muscles as well as our minds to become flabby.

Some of this indictment is true, and some false. The part that is true needs to be seen in context of historical facts, which to some deg may mitigate the sting of the charges.

Much of this indictment comes from "the tellectuals," and it varies in inverse ratio the amount of actual experience they have had the production of the mass media. Newspapers, instance, are criticized furiously by those who ha never worked on one, who are outraged becau the papers deliberately try to appeal to more th the 4.4 percent of the population who have above 130 and thus may properly be identified eggheads. It is true that I have never yet met of these critics who had, that very morning, read of the solid world news that the paper *did* have; was too busy being angry to stop to examine th loathsome object of his disapprobation.

I know that at this point I ought to define "t intellectual," but it is hard to do. The only rule is that if you claim to be one, you aren't. T self-styled intellectual is a member of the gro who wouldn't dream of listening to a phonogra until it was renamed a hi-fi; who despises AM ra but adores FM; who never looked at a movie un the Scandinavians and the French began produci films that are happily unintelligible; who repu ate their own egghead friends if by chance th write a book that sells widely; who won't have a set, but go next door to look whenever a good do mentary is scheduled.

To be sure, there is conformity everywhere

ay, even among the nonconformists. There is uth in the old joke about one intellectual who says another, "Why can't you be an offbeat, bourgeois-baiting, society-repudiating individualist—ke everybody else?"

These "intellectuals," of course, form only a part the high-IQ population. The late Dr. Lewis Terman, whose brilliant studies of intelligence were onducted here at Stanford, proved that many, erhaps most, of the especially gifted people are lso gregarious, outgoing, willing to accept life on s own terms. The nay-sayers described above ave, however, an importance beyond their numers because they are so articulate. They are also ure they are right; anybody of whom this is true is time bound to develop a following.

These and other critics tend to look back nostalgically to a utopian past which, like all the pasts remembered nostalgically, never existed. They ecall the founding fathers two centuries ago, or the iants of Concord just before the Civil War—who ad the classics at their fingertips, wrote (most of hem) beautiful English, and were full partners in he society of educated men. The critics tend to assume that in those days everybody was like that; ut in fact, the proportion of highly civilized men a undred or two hundred years ago was probably o larger than it is today. The majority of the people had few recreations any more ennobling than hose of the present.

AMERICAN taste in houses and furniture in the 17th and 18th centuries was good, because things were made by hand by skilled craftsmen, whose products were beautiful because they were imple and functional. People had so little that here was less chance to go wrong. In the 19th century we got machine production with no controls, nd most of what was produced was ugly. American taste in the 19th century was far worse than it is today; in fact, it was the editor of a popular magazine, Edward Bok of the *Ladies' Home Journal,* who worked for years at the end of the century to ersuade the nation's housewives to abandon the whatnot in the corner, filled with bad China figurines marked "Souvenir of Atlantic City," and the heaves of pampas grass stacked in an umbrella tand that might have been an elephant's leg, and oo frequently was.

For many years before the First World War, American popular cultural standards were those of the European peasantry who came here in such floods until they were cut off by the new immigration laws. Mary McCarthy blames the sterility and vacuousness of so much of our life today on the sterility and vacuousness of the European mold in which it was cast, but this seems to me quite wrong. The European peasant on his native ground, at least until lately, had a rich and colorful culture of his own, expressed in his costume, his art, his music. The sad thing is that when he came to America, he was forcibly divorced from all this background. Clinging to the past became a sign of the "greenhorn": the peasant's own children repudiated his language, his folkways, his whole culture, and turned eagerly to the new American things—automobiles, baseball, hot dogs, the funnies.

When it began, America's attempt to make literate a whole population based essentially on peasant stock was the boldest, most dramatic effort in all history. It would be a miracle if we could accomplish it fully in two hundred years, to say nothing of 50 or 75. That there would be many fumbles and failures was inevitable. Cultivated Europeans are scornful, for example, of many of the eccentricities of America college life, forgetting that we have by far the largest proportion of our young people in college that has ever been seen in any large Western country. Give us another hundred years —a mere eyeblink in the annals of history—and these eccentricities will have been ironed out.

IT IS A FIRM TENET of the self-styled intellectual that American society as a whole is hostile to him, and that this is especially true of the mass media. In the past, there was some merit in this charge. The United States was dominated by a pioneer psychology long after 1894, the date set by Frederick Turner as the end of the frontier, and among pioneers the man of action is always preferred over the man of ideas, who is so often beset by Hamlet-like doubts and fears. For the past 40 years the intellectual has also been suspected of extreme Leftist leanings, an accusation he was too proud to repudiate even when it was false, as it often was.

But this situation is rapidly passing, spurred on by the atom bomb and other things that have sud-

denly put the egghead scientist at a premium in our society. We seem to be moving toward the European condition, where the college professor, the writer, anyone who deals in ideas, has long enjoyed high esteem. President Kennedy has helped this process by bringing poets, playwrights, Nobel Laureates, into the White House, people with whom some recent Presidents had no possible means of communication.

The mass media certainly have an inferiority complex vis-à-vis the intellectual today; the one-sided love affair between *Time* and Dr. Reinhold Niebuhr is a great natural wonder of this generation. When Thorstein Veblen taught at Stanford he used to say that if the authorities actually understood what he was arguing, in his difficult prose, he would be fired forthwith; possibly Henry Luce does not quite grasp the degree to which Reinhold Niebuhr repudiates most of the fundamental values *Time* holds dear.

How much of the indictment of the mass media is true? We might begin with television, the most powerful device for rapid social change that has ever been invented, with the possible exception of the automobile. While no one has yet proved that violence in television shows breeds delinquent children—any more than Jack the Giant Killer caused an earlier generation to become infant decapitators—there seems little doubt that some children look at too much of it. President Kennedy and others have called attention to the fact that, as suggested, our children (and grown people too) don't get enough physical exercise. It is reasonable to suppose that the mind of the child is better off when the imagination is actively employed in creative play than when it is passively massaged by television drama.

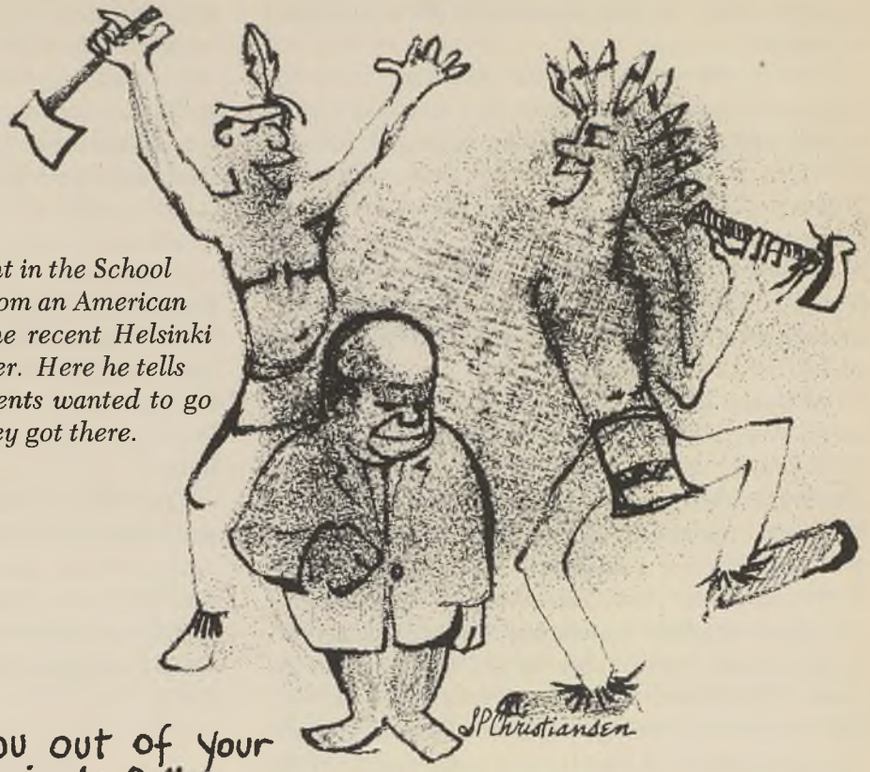
We know that the fear television would drive out books and magazines has not been realized. Sales of books, including children's books, are at an all-time high. So are magazine and newspaper circulations. The magazines that television has hurt have been those of the lowest intellectual content; the best ones have been increasing their circulations at a higher percentage than the rest. The real harm that has been done lately to most magazines has come from the fierce competition for the advertising dollar. Professor Boorstin complains that people look at reproductions of old masters in *Life* instead of the originals; but that is not the choice by which we are confronted. For 95 p cent of the 25 or 30 million people who see e issue of *Life* the choice is between these excell reproductions and nothing at all. The egghe can't bear to admit it, but that magazine's artic on anthropology, geology, and natural history h had a valuable educational effect on millions people—including a lot of college graduates w never knew, or have forgotten, these things. So the *Saturday Evening Post* series, Adventures the Mind, as well as many other things in a w spectrum of periodicals.

The sale of soft-cover books is one of the w ders of the world, more than a million a day. W many of them are meretricious, many others not; the last time I looked, Shakespeare was sell about 1,400,000 a year. Very difficult books of p losophy and science, that used to sell three or f thousand a year, are today put out in soft-co editions where the break-even point may be up the hundreds of thousands. Never have so ma books that are so good been read by so many.

School teachers are beginning to testify t television has awakened intellectual curios among students that leads them to read books ab things of which they first learned through TV vie ing. A few years ago I went back to my little ho town in Iowa and they persuaded me to give a t to the high school students on the current situat in Europe. When I was a boy in this town, hardly knew that Europe existed; but these you sters were well informed. They asked me questi for two hours, and I perspired trying to keep with them. Most of their information, I was t they had obtained from radio and from televis news and documentaries.

The provable sins of television lie in the fiel omission, not commission. When Newton Min called it "one vast wasteland," he might have ad the words, "of mediocrity." As someone has s it is a case of the bland leading the bland. The vertisers are so fearful of offending somebody t they interest and excite nobody. It is when I th of what television might do, of the wonderful portunities missed, that I start a handwring movement of my own.

Television and radio, moreover, are factors the degeneration of *(Continued on page*



The author, a graduate student in the School of Law, obtained credentials from an American newspaper in order to attend the recent Helsinki propaganda show as an observer. Here he tells why he and other Stanford students wanted to go and what they did after they got there.

To Helsinki and Back

By Jerry E. Berg

Thirty-three Stanford students are just back from a summer trip to Finland, where they mingled with 13,000 other "young" people from all parts of the world at the Eighth World Festival of Peace and Friendship at Helsinki.

It is no secret that this festival, just as the seven which preceded it, was organized, subsidized, and rigidly controlled by Russia and the countries of Eastern Europe. Putting it baldly, the 10-day festival was staged—perhaps "rigged" would be a better word—as a showplace for Com-

munist propaganda. We knew this before we ever decided to go. So why were the 33 of us so anxious to attend?

Not to support Communist ideology, certainly. Rather, we went to observe the Communists in action and to help counter the expected flood of anti-U.S. propaganda. We were tired of the unopposed propaganda field days enjoyed by the Communists at previous festivals. We were tired of the platoons of "typical American students" who regularly appear at such events to endorse every slander uttered against their own country—and to add a few of their own.

We may have been idealistic, but we weren't naive. We didn't expect to convert any convinced Communists, or to get anything approaching a fair hearing in the formal program of the festival; we knew our opponents were much too well organized for that. But we did hope our presence and our dissent from the Party Line would help neutralize the effect of other American delegates who, wittingly or not, were there to aid the Communist cause. We hoped that our private contacts with non-Communist delegates from neutral nations would at least show that there is another side to the story. And we hoped to gain, for ourselves, firsthand knowledge and understanding of Communist propaganda tactics.

MANY PEOPLE, including some of our fellow Stanford students, felt that we were leading with our chins; that we would be no match for the seasoned campaigners from behind the Iron Curtain, and that we would end up doing our country—and our University—more harm than good. We didn't agree, but we recognized the danger and prepared ourselves to cope with it.

While raising the funds to finance our trip, we quietly organized a preparatory briefing program—quietly, because some of us feared the festival organizers would bar us if they knew what we were up to. When the project was first considered on campus last spring, some 400 students expressed interest by applying to go. We obtained funds for only a twelfth of that number—27 men and 6 women. Of these, 15 were undergraduates and 18 were graduate students in fields ranging from economics to psychology.

An intensive six-day training program provided lectures and seminars every morning, afternoon and evening on current political, economic, and social problems, both here in the U.S. and throughout the world. Peter Grothe, a graduate student in political science, did an excellent job of procuring top men in these fields to meet with us. Many Stanford professors contributed freely of their time. To mention only a few: Dr. Theodore Kreps from the Graduate School of Business spoke on "The American Economy;" Dr. Claude Buss from the History Department held a question and answer session on "The Political Dynamics of Asia;" Dr. James L. [illegible], also from the History Department, spoke on "R[illegible] China;" and from the Political Science Department Dr. Charles Drekmeier discussed "Marxism-Leninism."

In addition to the formal training sessions, each observer was required to read from 10 to 20 books ranging from Milovan Djilas's *The New Class* to *The Negro in America* by Arnold Rose. Thanks mainly to the Stanford branch campuses in Europe almost everyone participating was at least bilingual.

ONCE THE PROJECT was set up, the Stanford voted to affiliate with the Independent Research Service (IRS), a private educational organization with headquarters in New York. A group of young Americans formed IRS in 1958 before the seventh festival, held a year later in Vienna, to help present the truth about the United States to young people throughout the world. The *Wall Street Journal* recently quoted a U.S. State Department spokesman as saying of IRS, "These people are doing a far better job than anything we could do. The U.S. government of course can't sponsor delegations without implying official support.

The IRS was most helpful in supplying us with the books on our required reading list and in providing information on previous festivals so we would know what to expect in Helsinki. They also obtained lodging for us in Helsinki and gave invaluable aid to our fund-raising efforts.

To forestall any potential future security kickbacks we gave the Federal Bureau of Investigation a full report on our intentions and travel plans well in advance of departure.

The political background of the group was as varied as one might expect to find in any random

group of Stanford students. There were no extremists of either the Left or the Right, but the range was broad enough to insure that we would disagree readily and often during the training sessions—an old American custom. But once in the hostile atmosphere of the festival our political differences seemed much less significant. What became important was that all of us were Americans.

PRIOR TO THE FESTIVAL its organizers attempted to hide the political nature of the event behind a facade of announced cultural and athletic events. But once underway, Communist delegates kept busy in between the concerts and athletic contests spreading propaganda among neutral groups. It was estimated that approximately 3,000 youth leaders from uncommitted nations in Asia, Africa, and South America were present.

Thus the 33 of us from Stanford found ourselves in Helsinki in a hostile environment with, from any Westerner's viewpoint, an important job to perform. Fortunately, as a group we had anticipated many of the problems which were to arise; we had dealt with them in our briefing sessions.

Evidently there is no universal concept of youth, for the ages of festival delegates varied from 16 to 30. The Russians and Poles appeared to be among the most elderly. At the Polish press conference a U.S. reporter asked the average age of the Polish delegates and got only a curt "No Comment" in reply.

Several of the delegations from Eastern countries arrived aboard ships which docked in the various harbors around Helsinki. The delegates lived and took their meals aboard these ships, enabling their leaders to exercise greater control over their movements. After reported defection of 14 members of the East German delegation to Stockholm (where the nearest West German embassy was located), it became virtually impossible to board or even linger near the East German ship.

The Red Chinese, like the East Germans, were carefully guarded. Their delegation was relatively small—a reported 137 including interpreters. Two cooks were brought along so that the delegates wouldn't have to eat in restaurants, thus avoiding all unnecessary exposure to anyone but other Chinese. It was practically impossible to speak with them. The school in which they were lodged was attentively watched. Whenever they attended a festival event they were taken in busses and immediately returned to their quarters upon the event's completion. At most of the seminars a Chinese political expert would show up to give a short party line speech and immediately depart upon its completion.

THE FINNS were surprisingly well organized in expressing displeasure at being forced to host a thinly disguised Communist gathering. Inside the country the festival was backed only by Finnish Communists and their youth organization; all other Finnish youth groups refused to participate.

On several evenings during the festival thousands of Finnish youths, some obviously drunk, gathered along Mannerheim Street in downtown Helsinki to shout "Viva Finland," "Down with the festival," and "Down with Communism." These apparently spontaneous demonstrations usually began when groups of delegates wearing festival pins walked through the congested downtown area. Delegates were mobbed on several occasions, but never hurt.

But there was violence too. On one occasion several windows of a Russian bus full of North Korean delegates were shattered. There were fights between Finnish Communists and Finnish anti-Communists. On each successive evening the Finnish police became more adept at handling these riots, which were so out of character with the customary quiet of Helsinki life. They became quite successful at controlling the crowds with mounted policemen and judicious applications of tear gas.

Most festival delegates were understandably nervous and apprehensive about the negative response their presence evoked. Some refused to go anywhere alone at night, or even in small groups.

Many rumors circulated among delegates as to the reason for this Finnish antagonism. Some said the riots were sparked by a Nazi uprising staged by West German delegates. But the most common story was that the U.S. had sent agents to instigate the riots in order to detract from the festival goals of "Peace and Friendship."

Apart from the riots and demonstrations, local Finnish groups employed more subtle means of undermining Communist effectiveness. All of the Finnish charter busses were rented and taken out

of the city, so the Russians had to bring in a fleet of busses from Leningrad to provide the various delegations with transportation inside Helsinki. All available billboards were rented, so consequently no festival advertisements were in evidence. Of course there were no street banners or welcoming pennants.

In addition, the Finns were extremely reluctant to provide meeting halls and housing facilities. As a result some of the delegates were housed in schools located as far as 30 kilometers outside Helsinki. With the single exception of the Communist newspaper, the festival was not mentioned once in any of the Helsinki papers.

Some of us from Stanford had contacted U.S. newspapers and received press credentials in exchange for commitments to send stories. With these credentials we obtained passes granting us admittance to most festival events. The rest of our group applied for and obtained U.S. delegate cards through the United States Festival Committee, an unofficial ad hoc committee described by *Newsweek* as "a small, mysterious, and left-leaning organization" which "undoubtedly includes a number of youthful fellow travelers and a heavy proportion of political innocents." This group, headed by Michael Myerson, a 1961 graduate of the University of California, worked closely with, and was endorsed by, the sponsors of the Communist-dominated festival.

The Stanford students and other members of IRS provided a marked contrast to the majority of delegates approved by the U.S. Festival Committee. I don't know where they found their applicants, but they were not representative of American youth. Long haired and bearded, slovenly, inconsiderate, loud, bored, deliberately shabby—these are a few of the adjectives which come to mind. In line with their nihilistic philosophy, many busied themselves distributing anti-U.S. propaganda or verbally chopping away at their homeland for encouraging racial inequality or for "forcing" Russia to resume nuclear testing. It's difficult to estimate their effectiveness, but the Communists were not unhappy to have tame Americans who so readily reinforced the festival's major themes.

In Helsinki, those of us from Stanford tended to spread out and go our individual ways, talking with as many delegates as possible while attending sem nars and other events. Most of the seminars we tightly controlled with a hard core of sharply an Western speakers dominating the discussion Western colonialism and imperialism were repea edly denounced, of course. The United States w

Come on, let's go say hello to our fellow typical-American students.

often attacked as an "imperialist warmonger" a as an advocate of racial bigotry. Though a few no Communist delegates attempted to counteract the anti-Western speeches, it was not uncommon a see Africans, Asians, and South Americans join t pack.

But in spite of efforts by the seminar chairm to present a united front, some pro-Weste speakers managed to gain the floor. In one semin Stephan Michelson, a teaching assistant in Sta ford's Department of Economics, read a paper e pousing a non-Marxist view of economics.

In the "Free" Tribune, Armin Rosencranz, t incumbent ASSU president, gained the floor lo enough to question the Communists about the policies in Hungary, Tibet, and Berlin. Rosencran

a law graduate now studying for his PhD in political science, was not jeered, but the sponsors soon remedied that by bringing two busloads of Russians and Poles to the hall to help the chairman keep control.

For a time, shouting, yelling, and general harassment was the rule for both sides. At one low point the chairman shouted in English to some pro-Western U.S. delegates who wished to speak, "Shut up and sit down!" When another pro-Western speaker did gain the floor, the chairman interrupted him to ask for rebuttals; when no one in the audience volunteered any, he calmly announced that the speaker's time was now up and moved on to the next speaker. A Russian delegate answered the jibe about Hungary by declaring that such charges "are practically a dead issue which is repeatedly brought up by Western propaganda peddlers." Those who continued to defend the West were denounced as "speaking in the Fascist tones of Adolf Hitler."

REPELLED BY such blatant one-way control, a few non-Communist delegates walked out of the festival. Forty-four Ceylonese delegates left early, charging that they had been "exploited for cold war politics." The head of the Ugandese delegation, Owiti Ger—with whom several of us became well acquainted—also left early after stating that "In Helsinki no free exchange of ideas has been possible." Other African and Asian delegates became disenchanted but nonetheless decided to remain in order to participate in the Communist-sponsored post-festival tours.

Most of us found informal conversations with individuals more rewarding than attending controlled seminars. With a few exceptions, it was not difficult to meet and talk with delegates from most of the countries, including Russia itself.

The second afternoon we were in Helsinki, many of us went down to the docks to watch the arrival of the Russians; the entire delegation of 1,200 came aboard a large passenger liner. Hundreds of people turned out to meet them, conspicuously including Finnish Communists throwing flowers to the Russians lining the ship's railings. Most of the 450 Cuban delegates were also present; they cheered the Russians enthusiastically and threw kisses to many whom they had met earlier during a month-long festival-sponsored tour through the Soviet Union.

Although we weren't allowed to board the ship, a few of the Russians disembarked and mingled freely with the crowd. Gary Green, a senior from Arcadia, and I found one Russian "youth" who spoke English, and we conversed for nearly 45 minutes. He patiently answered our questions—mostly with "yes," "no," or "I don't know." He was from Moscow, 45 years old, and *(Continued on page 50)*

Alumni Newsmakers

HIGH JUDICIAL appointments (and retirements) involving Stanford alumni have taken place in recent weeks—Justice Mathew O. Tobriner, '24, of the First District Court of Appeal, San Francisco, has been named to the California Supreme Court by Governor Brown to succeed Associate Justice Maurice T. Dooling, '12, JD '13, who retired in June. President Kennedy has nominated Stanley A. Weigel, '26, JD '28, to be a federal judge for the Northern District of California. He is an expert in antitrust and fair trade law and had been a partner in the San Francisco firm of Landels, Weigel, and Riplay.

STANFORD has been generous to the University of California at Los Angeles School of Medicine—providing an alumnus as the new dean of the school. He is Dr. Sherman Mellinkoff, '41, MD '44.

TO THE PRESIDENCY—

Of Fairchild Camera and Instrument Co.—Richard Hodgson, '37, executive vice-president for the past seven years. The new administrative officer joined the firm in 1955 — was one of the organizers of Chromatic Television Laboratories, Inc., before joining Fairchild.

Of American International Oil Co. (a consolidation of Standard Oil Co. of Indiana foreign operations) — L. Chase Ritts Jr., Gr. '47. He had been Standard of Indiana's coordinator of crude oil production, purchasing, and transportation since 1960.

Of the Bank of California—Charles de Bretteville, '34. A director of the bank for the past 10 years, he has served as chairman of the discount, trust, and examining committees. For 12 years he had been president and chief executive officer of Spreckels Sugar Co.

AFTER RECEIVING her AM in anthropology and folklore from the University of North Carolina in 1961, Katharine Royal Cate, '49, was awarded a research fellowship from the Organization of American States for field work in Northeastern Brazil. She spent eight months travelling in Brazil, and gathered data on the social organization of the carnival clubs in the suburbs of Recife. In March she was named a research associate of the Joaquin Nebuco Institute for Social Studies, Recife, where she lectured on anthropology and folklore. She has published several articles and is writing a book on *Carnaval* in Brazil, the subject of her thesis. Her husband is on assignment in Georgetown, British Guiana, with the F.A.O. of the United Nations. They live next door to the Premier, Dr. Cheddi Jagan, and were sealed off (along with the Premier) during the recent disturbances. In addition to her Brazilian research, Kitty is doing a study of the steelbands of Georgetown—was a judge of the steelbands during the B.G. Festival last year. She recently served on the judging panel for "Miss British Guiana." The Cate "famil... includes one toy pomeranian, o... large green parrot, and one gia... billed toucan.

ORGANIZER OF the San Lean... Branch of the American Associati... of University Women, Hilda Hav... DeCou, '35, has been honored by t... unit with a name grant of $500 to be... used for African scholarships. S... has held local and state positions... AAUW and is active in a number... civic groups. This in addition to a... in a doctor's office and caring for h... band Herbert, '30, and children M... iam, '62, and Wesley, '64.

PRESIDENT-ELECT of the American ... Association is Walter E. Craig, ... LLB '34, of Phoenix. The 53-year-... attorney has been practicing in Ph... nix for the past 24 years and is a f... mer president of the State Bar ... Arizona. His election took place ... the annual meeting in San Franci... in August. He will succeed to ... presidency next August.

A LEADING AUTHORITY on the hist... of Russian chemistry received t... seventh annual Dexter Award of t... American Chem... cal Society in S... tember. Profes... Henry M. Leic... ter, '27, AM ... PhD '30, head ... the Department ... Physiological S... ences at the College of Physicians a... Surgeons, San Francisco, was rec... nized for "his noteworthy contri...

tions to the advancement of the history of chemistry." The award was established in 1956 by the Dexter Chemical Corp., New York, and consists of $1,000 and a plaque.

PROFESSIONAL HONORS, also, for Eugene C. Gillett, '21, who received the Sugar Industry Technicians, Inc., achievement award in sugar technology. Technical advisor to the vice-president, operations, of C and H Sugar Refining Corp., he has been with the firm for more than 40 years. His research and writings in the fields of sugar liquor filtration, vacuum pan design, and sugar crystallization have been accepted as standards in the worldwide sugar industry.

KO-WONG HUNG, AM '30, EdD '32, has devoted himself to the education of the Chinese people ever since receiving his graduate degrees from Stanford. He first was assistant professor of education at Lingnan University, Canton. From 1933 to 1938 he was principal of Pui Ying Middle School, Canton and Hong Kong. In 1938 he founded Ling Ying College in Hong Kong—a co-educational, private Christian school with an enrollment of 1,440. He still is principal of the school and concurrently serves as president of Lingnan University, Taipei. Additionally he is president of the Cultural and Educational Association of Chou-Chow and Swatow Residents in Hong Kong.

A NEW KIND of high school physics course— designed to bring the study of science closer to the cultural life of man—is developed at Capuchino High School, San Bruno, by F. James Rutherford, AM '49. Development of the new course is supported by a grant from the Carnegie Corp. of New York. The factual subject matter of physics will be basic to the course; but in addition it will look at the role of the physicist himself, examine the place of physics as a creative force in society, and bring out the internal unity of physics while stressing some of its important interactions with other sciences and with the other liberal arts.

DR. PETE T. OKUMOTO, '40, recently received the H. A. Robins award at the Hawaii Medical Association convention. His contributions to society were cited in the presentation—he is a past president of the Waiakea Lions Club; president of the Hawaii County Medical Society; chairman of the County Advisory Health Committee; director of the County American Red Cross; president of the 442nd Veterans Club; and a regent of the University of Hawaii.

PLAUDITS AT COMMENCEMENT

STANFORD grants no honorary degrees, but a number of other schools tapped alumni for special recognition in June. Among those honored:

John W. Gardner, '35, AM '36, president of the Carnegie Corp. of New York and the Carnegie Foundation for the Advancement of Teaching—a doctor of laws from the University of Rochester. Read his citation, " 'The Pursuit of Excellence,' a phrase of his making, describes his own services to education as well as his conception of the guiding principle of educators."

From the University of Toledo—a doctor of laws to G. Ernst Giesecke, '31, AM '34, PhD '39, professor of higher education and associate dean of the Graduate School of Education, University of Chicago. A consultant for the North Central Association of Colleges and Universities, he has worked on academic matters with the University of Toledo for the past two years.

D. Lee Narver, '14, chairman of the board of the Southern California construction firm of Holmes and Narver —an honorary doctor of laws from Pepperdine College at the school's 10th annual "America's Builders Recognition Night." From the citation; "Over the years, Mr. Narver has gained wide recognition for his contributions to structural and civil engineering and has pioneered particularly in the science of earthquake-resistant design, in which he is regarded as a leading authority."

From the California College of Medicine, Los Angeles—to Dr. Wayne E. Pollock, '24, MD '28, an honorary doctor of science degree. Executive director of Sutter Community Hospitals in Sacramento, he is a past president of the Sacramento County Medical Society and currently chairman of the California Association's committee on other professions.

Dr. William M. Fitzhugh, '26, Monterey physician and collector of graphic art of old and contemporary masters—a doctor of laws from the University of Wyoming.

From Saint Mary's College — to James F. McCloud, '41, president of Industrias Kaiser Argentina, an honorary degree as a "good neighbor industrialist" and a trail-blazer in the modern industrial development of the South American republic.

Faculty, too, receive honors at commencement — Gerhard N. Rostvold, '48, AM '49, PhD '55, chairman of the Department of Economics at Pomona College, received a Wig Distinguished Professorship award of $3,000; Dr. Robert L. Kelley, AM '49, PhD '53, assistant professor of history and assistant to the chancellor for development at the University of California at Goleta (Santa Barbara), received the Plous Memorial Award given by the academic senate of the Santa Barbara division for "outstanding performance."

Washburn College presented Paul J. Lovewell, MBA '40, its highest alumni honor—the distinguished service award. He is general manager of economics and management research at Stanford Research Institute. — Frances Hallman, '28, was granted an alumni achievement award from Santa Ana College. She is a noted bacteriologist.

1922 1927 1937

2,000 Alumni Will Attend Seven Stanford

REUNIONS

Big Game Weekend — November 22, 23, 24

1957

1937's Silver Anniversary Reunion

On the Campus, Friday, November 23:
Golf Tournament
Luncheon with Faculty Guests
Tours of the Campus
Gaieties and Big Game Bonfire

In San Francisco, Saturday, November 24:
Post-Game Dinner-Dance
Room of the Dons, Peacock Court
Hotel Mark Hopkins
Cocktails 6:00 p.m.; Dinner 8:00 p.m.

1947

The Six Friday Night Class Parties

1922—Cocktails and Dinner
Green and Garden Rooms
Fairmont Hotel
Cocktails 7:00 p.m.; Dinner 8:30 p.m.

1927—Cocktails and Dinner
Fountain and Crystal Rooms
Fairmont Hotel
Cocktails 6:30 p.m.; Dinner 8:00 p.m.

1942—Cocktails and Dinner-Dance
Peacock Court
Hotel Mark Hopkins
Cocktails 7:00 p.m.; Dinner 8:30 p.m.

1947—Cocktails
Station J, Commercial and Montgomery
San Francisco
5:00–7:30 p. m.

1952—Cocktails
Room of the Dons
Hotel Mark Hopkins
From 7:30 p.m.

1957—Cocktails
Golden Empire Rooms
Hotel Mark Hopkins
7:00–11:00 p.m.

1952

No, it's not too late. For reservation information call or write Bowman Alumni House, Stanford.

Strictly Personal

1898

STORKE – Thomas M. Storke, editor and publisher of the *Santa Barbara News-Press*, has been named winner of Colby College's Elijah Parish Lovejoy award for courageous journalism for his articles concerning the John Birch Society. He earlier had received the Pulitzer Prize for the same series.

1906

AMES–Alden Ames, a former judge of the San Francisco Superior Court, has moved his law office to his home in Palo Alto where he will continue a limited practice specializing in the preparation of wills, agreements, estate planning, and probate of estates.

FOWLER – Henry W. Fowler, curator of ichthyology at the Academy of Natural Sciences of Philadelphia, recently completed a catalog of world fishes, a project begun some 30 years ago.

1908

CHAFFEE–Dr. Burns Chaffee, who has had a medical practice in Long Beach for 43 years, was awarded a 50-year medallion by Johns Hopkins Universtiy (where he received his medical degree) in April. He recently published an autobiography, *My First 80 Years.*

1909

JOHNSON–Albert L. Johnson counted up the time recently and realized that he had been practicing law for 53 years. Formerly a resident of the Bay Area, he now lives in Nevada City.

PURDUM–Ernest Purdum, JD '12, recently returned to Southern California from a two-year trip around the world.

1910

LOOMIS–Sue Hunter Loomis has acted as a social hostess and chaperone of junior hostesses since 1942 for the Navy ship dinner dances held in Long Beach. She has received honor plaques and citations from the Naval Bureau of Personnel, Washington, D.C., and from the Naval Base at Terminal Island.

1912

TINCHER–Eugene E. Tincher, JD '14, was honored in June by the Teachers Association of Long Beach for "outstanding service to public education in the Long Beach Unified School District." He served as president of the Board of Education seven times during his 20-year tenure on the board which ended in 1953. He has long been an attorney in Long Beach.

1914

McKEE–Paul B. McKee, chairman of the board of Pacific Power & Light Co., was presented with honorary membership in the Electric Club of Oregon in April. He has been in the utility industry for 47 years and in 1959 was Portland's "first citizen." He is a past president of Portland Community Chest and served on the committee which organized the United Fund. He is a past national vice-president of the National Association of Manufacturers.

Marriages

CLAGGETT-BEERY–Strabo V. Claggett to Hazel Knapp Beery, May 7 in New York City. They will live in New York City.

1915

BORCHERT–Georgia Bentley Borchert, AM '18, is president of the Capital Division of the California Retired Teachers Association in Sacramento.

GRAVES–Olin W. Graves retired two years ago from service with San Diego County.

1917

KETCHAM–Donald E. Ketcham retired in 1959 as district manager of American Bitumuls and Asphalt Co., a Standard Oil subsidiary.

1919

NAKADA–Dr. James Robert Nakada is secretary of St. Louis County Medical Society in Missouri and earlier served as vice-president of the professional group. He also is a member of the board of directors of the Downtown Kiwanis Club in St. Louis.

1920

CROBAUGH–Dr. Clyde Crobaugh, AM '21, has joined the economics faculty of Florida Southern College in Lakeland, Fla. He had been on the faculty of Fenn College for the past 15 years and earlier taught at the University of Tennessee and Bethany College. The author of five books in the field of economics and business, he will have a sixth, *New Frontiers Economics*, published later this year.

1921

CURRY–Hilda Wright Curry and her husband, John, are "retired" and at home in Oakland after living in the Middle East for a number of years.

Marriages

GILLILAND-VOSS – Margaret Polhamus Gilliland to John W. Voss, June 24. They will live in Point Loma, Calif.

REUNION
Nov. 23, 1962
See Page 32

ESTCOURT–Vivian F. Estcourt retired recently after 39 years of service with Pacific Gas and Electric Co. Starting with the firm in 1923, he was manager of steam generation at the time of his retirement.

GIBBON – Thomas E. Gibbon of Pasadena has been elected to the Board of Fellows of Claremont University College. He is chairman of the board of the Marble Co., director of the Marble Mortgage Co., and director of the Prudential Acceptance Corp.

VIVIAN F. ESTCOURT
See Class of 1922

Marriages

SALZAR-SANDS – Mary Young Salzar to Warren Carter Sands, in January. The groom owns and operates the Tiffany restaurant in Cerrillos, N.M.

1923

DARLINGTON – Thomas D. Darlington is president of the Carefree Development Corp. which is developing the model community of Carefree, Ariz., a complete city in the winter resort area of the state.

FENTON–Frank L. Fenton, AM '25, PhD '42, who had been serving as president of San Francisco State College for the past year, retired at the end of the summer with the academic title of professor of English, emeritus. He had been a member of the school's faculty and administration since 1930 and was dean of instruction before assuming the presidency. He is a specialist on the history of the theater of early San Francisco and a vice-president of the Heritage Council.

1924

CLEVELAND – Norman Cleveland represented Stanford at recent ceremonies installing the first chancellor of the new University of Malaya in Kuala Lampur.

KIRBY–James M. Kirby is manager in Nigeria for American Overseas Petroleum, Ltd.

McCAFFERY – Emmet McCaffery's wife, Florence, died in January.

SHOUP–Carl S. Shoup, McVickar Professor of political economy at Columbia University, is director of the Program of Research for International Economic Integration which has begun an analysis of the economic details and difficulties of the European Common Market. He also is a member of an advisory committee to the European Economic Community.

1925

MARCH–Harry A. March retired from Grace Line, Inc., in 1961 and has become associated with J.U. Dougherty, realtor, in San Mateo.

THEDE–Maurice E. (Maury) Thede retired this spring as regional forester for the U.S. National Park Service and now lives on his ranch in the Verde Valley, Ariz.

1926

BEAN–Theron W. Bean has been appointed

manager of the power and industrial division of Hawaiian Dredging and Construction Co. (Dillingham Corp.), Honolulu.

BROCK—Rose Louise Trautz Brock and her husband, Barney, have been living near Malaga, Spain, in recent months. She is a retired medical bioanalyst and he was associated with an automotive dealership in Redding for many years.

BROWN—Harmon C. Brown has formed a partnership for the practice of law in Riverside with Don L. Chapman. They will use the firm name of Brown & Chapman.

SHOUP—Ruth Snedden Shoup recently was named to a fourth term on the New York City Board of Higher Education, the board of trustees of the City University of New York.

SWIM—Dudley Swim, MBA '28, former president of the Alumni Association, has been named chairman of the executive committee of National Airlines.

TAYLOR—James Taylor, Long Beach general manager of the gas department of Signal Oil and Gas Co., has been elected a vice-president of the company. He has been with Signal for 36 years.

1927

Nov. 23, 1962
See Page 32

BOLMAN—Robert H. Bolman, former vice-president of the Bank of California and manager of the Oakland office, has been appointed a senior vice-president of the bank. He will be attached to the head office in San Francisco. In banking for 34 years, he joined Bank of California in 1954 as a vice-president.

MOSHER—Francis W. Mosher Jr. has been elected commander of Mill Valley Post 284 of the American Legion. Currently supervisor of technical services in the San Francisco industrial and service office of the California State Employment Service, he served with the Tenth Mountain Division (ski troops) in the Aleutians during World War II.

WINTERBOTHAM — Linn Winterbotham, secretary-manager of the Palo Alto Chamber of Commerce, received a special recognition plaque in June commemorating 15 years of service to the organization.

WILLIAM A. MCAFEE
See Class of 1931

GAETAN M. ZUCCO
See Class of 1927

ZUCCO — Gaetan M. Zucco recently completed the two-week special orientation course at the Army Command and General Staff College, Fort Leavenworth, Kan. A colonel in the Army Reserve, he is commander of the 6314th Logistical Command in Los Angeles. In civilian life he is with Bethlehem Steel Co. in Los Angeles.

1928

BARBER—Willard S. Barber retired in July from the career Foreign Service after serving in Burma, Poland, Turkey, Iran, Pakistan, Colombia, and Peru. He also had served in the State Department as deputy assistant secretary for Inter-American affairs. He will be a lecturer in international affairs at the University of Maryland during the current academic year.

VINCENTI—Louis Vincenti's wife, Luella, died in Pasadena August 16 after an illness of three months. She leaves two children, including Louis Jr., '54, MBA '58; six grandchildren; and a brother-in-law, Walter Vincenti, '38, Engr. '40, professor of aeronautical engineering at Stanford.

1929

CARLSON—Dr. Edward F. Carlson recently completed 15 years as staff pediatrician at Fred Finch Children's Home, Oakland. He is chief of staff at Children's Hospital of the East Bay and head of the department of pediatrics at Providence Hospital.

FRANK—James E. Frank was elected national vice-president for Army affairs of the Reserve Officers Association of the United States at the 34th annual convention at Las Vegas in June. He is a brigadier general in the Army Reserve and currently assistant division commander, 91st Division (Training), with headquarters at the Presidio of San Francisco. In civilian life he is with Acme Export Packing Co.

LAURITZEN—John B. Lauritzen, LLB '32, has opened offices in Palo Alto for the practice of law. He will specialize in the law of labor and management including consultation and planning on employer and employee relations. A San Francisco office will be continued.

SMALL—Francis M. Small, manager of the advertising and publicity department of P cific Mutual Life Insurance Co., has be nominated to serve on the executive comm tee of the Life Insurance Advertisers Associ tion. He lives in Altadena.

1930

JONES—Edmund H. Jones of the District Columbia Armed Forces Insurance Servic has qualified for membership in the Fidel Bankers Life Insurance Corp.'s Leaders' Clu He attended an educational conference Miami Beach in June.

WITTAUSCH — William K. Wittausch h been named manager of housing research Stanford Research Institute. Most recen chief housing advisor to the U.S. AID missi to Guatemala, he earlier served for five ye as assistant vice-president and economic a visor of the First Federal Savings and Lo Association of Chicago. At SRI he will concerned with research on engineered ho ing systems.

1931

JONES—Dr. Grenville C. Jones, EdD principal of Alhambra Union High Scho will spend the current academic year in H waii as principal of Leilehua High Scho Wahiawa, Oahu. His counterpart from t Islands will take his place at Alhambra—t are cooperating to the extent of swapp homes.

LEE—Harry A. Lee, Pacific area manager J. Walter Thompson Co., advertising, been elected president of the San Francis Chamber of Commerce.

McAFEE—William A. McAfee has been a pointed vice-president, supply and transp tation, of Standard Oil Co. of Californi Western Operations, Inc. He had been g eral manager of wholesale sales for West Operations since 1958. He joined the co pany in 1931.

MARSH—Herbert B. Marsh has been elect a vice-president of North American Reassu ance in San Francisco. Associated with t firm since 1959, he is in charge of the co pany's Western regional office in San Fra cisco. He earlier had been with Prudenti Equitable, and John Hancock.

MILES—Thomas K. Miles has been appoint manager of staff administration for Shell Co.'s financial organization in New York. will report to the financial vice-president a assist him with staff personnel responsibiliti With Shell since 1939, he most recently w assistant to the oil research and developme manager at the research center in Emeryvil

WEIGLE — Cyril G. Weigle, a patholog with the California Department of Agric ture, spent two weeks of active duty at t Oakland Army Terminal in July. He is lieutenant colonel in the reserves assigned the Army Reserve School in Sacramento.

1932

BROWN—Dr. David E. Brown, MD '36, h been promoted to the rank of professor otorhinolaryngology at the University of diana.

FRISBIE—Howard S. Frisbie is mine superi tendent of Peabody Coal Co. and mayor p tem of the city of Moberly, Mo. He is ma ried and has two sons—Richard graduat from Oklahoma State this year and is ser ing as a lieutenant in the Army, and James a freshman at the University of Virginia.

1933

BROWN—Dr. Rowine Hayes Brown received JD from Chicago-Kent College of Law a ear ago.

DE LEW—Earl Richard De Lew is a chemst for Yosemite Chemical Co. in San Franisco.

DOUDOROFF—Dr. Michael Doudoroff, AM 34, PhD '39, professor of bacteriology at the University of California at Berkeley, has been lected to membership in the National Acadmy of Sciences.

EDWARDS—Col. Walton M. Edwards is assigned to Ireland Army Hospital, Ft. Knox, Ky., where he is chief of the pediatric and communicable disease services. He recently completed three years of duty in Germany where he served as consultant in pediatrics for the Surgeon, U.S. Army, Europe.

HANSON—Raymond L. Hanson, a partner in the San Francisco law firm of Schofield, Hanson, Bridgett, Marcus & Jenkins, has been reelected president of the board of Presbyterian Medical Center, San Francisco.

HIRSFELD — James B. Irsfeld Jr. has been elected president of the Hollywood Chamber of Commerce. An attorney, he is with the Hollywood firm of Irsfeld, Irsfeld, & Younger.

IRVINE—Lt. Col. George W. Irvine is commander of the 32nd Artillery, 1st Missile Battalion, in Hanau, Germany. He recently participated in Grand Slam I, a five-day Central Army Group exercise in Germany.

REICH—Marion R. Reich, a CPA from Oakland who retired from the Executive Board of the Alumni Association after four years of service, has become a partner in Lybrand, Ross Bros. & Montgomery, a nationally known accounting firm. The local firm in which he was a partner has become the Oakland office of the Lybrand organization.

1934

HERZOG—Dr. George K. Herzog Jr., MD '38, has opened new offices in the Post-Scott Medical Building in San Francisco where he will specialize in obstetrics and gynecology.

PACKARD — David Packard, president of Hewlett-Packard Co. and a Stanford Trustee, has been elected to the board of directors of National Airlines.

Marriages

GRAUPNER-THOMPSON—Gwen Elliot Graupner to Everett T. Thompson, July 14 in San Francisco, where they live.

1935

BULLER—Howard Buller has purchased a motel in Wecoma, Ore., which he will call the Hostel. He earlier had operated a ranch near Bend and flew borate bombing planes for the U.S. Forest Service.

deBRETTEVILLE — Dorothea Snively deBretteville received an MLS degree from Rutgers in June.

KAHN—Marvin R. Kahn has been appointed assistant hospital director at the Veterans Administration Hospital, Livermore. He has been with the Veterans Administration since 1946. He and his wife, Vivian, and twins, Nancy and Fred, will live on the hospital grounds. A daughter, Randy Katherine is a junior at Stanford and currently is spending six months at Stanford-in-Florence.

LEE — Sam Lee, national intercollegiate doubles champion in 1933, has kept his prowess as a tennis player. The Portland, Ore., businessman recently played in the Gordon's Cup tennis matches at the Seattle Tennis Club — and with his partner thoroughly trounced a Canadian pair in the No. 4 match.

PETERSEN — Claire Mitchell Petersen recently returned from a three-month tour of Europe.

RICHARDS—Dr. Victor Richards, MD '39, chief of surgery at Presbyterian Medical Center, San Francisco, has been elected chief of staff for the year 1962–63. From 1955 to 1959 he was professor and chairman of the Department of Surgery at Stanford Medical School.

TRAIN — Charlotte Gibner Train's son, Lt. William F. Train III, was killed in action in Viet Nam in June. A graduate of West Point, he was the older son of the Trains and the brother of Bruce, '62. Maj. Gen. William F. Train is commandant of the U.S. Army War College, Carlisle Barracks, Pa.

TRIOLO—Jim Triolo, executive director of the University of Texas Development Board, has been elected a trustee-at-large of the American College Public Relations Association. Before going to Texas he was associate General Secretary at Stanford.

Twenty-eight Alumni Are on the Campaign Trail as Candidates

THREE CANDIDATES for the U.S. Senate and three for governorships head the list of Stanford alumni seeking office in the November elections. In all, word has been received of 28 candidates—14 Democrats, 14 Republicans—most of whom are from California, Oregon, and Arizona.

Of the Senatorial candidates, two are incumbent Democrats: Carl Hayden, '00, of Arizona and Frank Church, '46, LLB '50, of Idaho. Senator Hayden recently completed 50 years of service in Congress—a record—and is chairman of the powerful Appropriations Committee. Senator Church, seeking his second term, was keynoter at the 1960 Democratic Convention. The third candidate, Sigfrid B. Unander, '36, MBA '38, is a Republican running for the seat currently held by Wayne Morse of Oregon. He is a former State Treasurer of Oregon.

The two candidates for the governorship of Oregon are alumni. Incumbent Governor Mark Hatfield, AM '48, is seeking reelection. He is a Republican. Running against him is Attorney General Robert Y. Thornton, '32, a Democrat.

In Arizona, Paul Fannin, '32, has won the Republican nomination for re-election as governor of the state. He was first elected four years ago.

In California, too, there is an alumnus seeking re-election to a statewide office. State Controller Alan Cranston, '36, first elected in 1958, is a Democrat. One of Dink Templeton's quarter milers as a student, he later became a foreign correspondent. He was a leader in mobilizing support for the United Nations and served as first president of the California Democratic Council.

UNANDER

CRANSTON

HATFIELD

CHURCH

Eight alumni are known to be running for the U.S. House of Representatives—six from California. The Californians are Frederic Nagel, '35—R—Susanville (2nd District); Harold Peterson, AM '53—R—Alameda (8th District); W. Donlon Edwards, '36—D—San Jose (9th District); James P. Thurber Jr., '50—D—Los Altos (10th District); Burt L. Talcott, '42, LLB '48—R—Salinas (12th District); and Charles Teague, '31, LLB '34—R-Inc.—Ojai (13th District). The two other Congressional candidates about whom news has been received are Oregonians—incumbent Democrat Edith Starrett Green, Gr. '44, 3rd District, and Bob Chandler, '41, a Republican seeking the seat from the 2nd District.

For the California State Senate there are three candidates who are alumni: Joseph A. Rattigan, LLB '47—D—Santa Rosa (12th District); Robert S. Jordan, MS '54—D—San Jose (18th District); and Eugene Nisbet, '24—D—Upland (36th District).

Ten alumni are candidates for the Assembly in California. They are: Pearce Young, '47, AM '49—D—Napa (5th District); Nicholas C. Petris, LLB '49—D-Inc.—Oakland (15th District); Milton Marks, '41—R-Inc.—San Francisco (21st District); George W. Milias, AM '50—R—Gilroy (22nd District); Robert L. Davis, '50—R—Mountain View (24th District); Burt M. Henson, '50, MBA '52—D—Ventura (37th District); Milton J. Lear, '38—D—Los Angeles (60th District); Robert S. Stevens, '39, LLB '42—R—Los Angeles (60th District); Robert E. Badham, '51—R—Costa Mesa (71st District); and Victor V. Veysey, Gr. '40—R—Brawley (75th District).

MARION R. REICH
See Class of 1933

Marriages

DEARING-KRAMER – Jane Dearing to Charles Bradley Kramer, May 4 in Carmel. They will live in Pebble Beach.

JONES-RALEY—Robert Letts Jones to Virginia Lee Boyden Raley, July 10 in La Jolla.

1936

FARRA—James S. Farra has been named vice-president and managing director of Douglas Aircraft Co. (Japan), Ltd. The Douglas subsidiary handles sales and product support activities for the parent aerospace corporation in the Far East. With Douglas since 1936, he most recently had been director of domestic commercial sales and director of the world-wide service organization. His wife is the former Margaret Joy, '36.

FUNKE—Philura Graham Funke has been appointed counselor on student affairs at Scripps College.

LEPS – Thomas M. Leps participated as a panel member at a recent conference of the American Society of Civil Engineers. The group sought ways to upgrade civil engineering research and to further identify civil engineering in its many but generally unrecognized contributions to the space exploration program.

NIELSEN—Emiel T. Nielsen, MBA '38, manager of the ordnance division of FMC Corp., San Jose, has been elected a vice-president of the firm.

Marriages

BURRIS-BERG—Joseph J. Burris, LLB '40, to Carol Berg, May 12 in the Stanford Memorial Church. The groom, a Southern California attorney, is president of the Stanford Athletic Board and a past president of the Alumni Association. They will live in Flintridge.

1937

REUNION
Nov. 23 and 24, 1962
See Page 32

KAMBARA – Dr. George K. Kambara, MD '41, has been promoted to the rank of clinical professor of ophthalmology at the Loma Linda University School of Medicine, Los Angeles (formerly the College of Medical Evangelists). He also is starting his fifth term as chief of the eye service at White Memorial Hospital, the hospital of the Medical School. Additionally, he recently was selected chairman of the eye section of the Los Angeles Society of Opthalmology and Otolaryngology.

McDANIEL—Thomas M. McDaniel Jr., MBA '39, has been elected executive vice-president of Southern Cailfornia Edison Co. He joined the firm in 1956 as executive in charge of the organization and procedures staff and had been a vice-president since 1957. He earlier was a partner in the accounting firm of Arthur Andersen & Co.

PINOTTI—Primo L. Pinotti was transferred last fall by Standard Oil Co. of California to the California Chemical Co. Oronite Division at Park Ridge, Ill., where he is district manager for petroleum chemicals. He presented a paper before the CIMAC (International Congress of Combustion Engines) at Copenhagen in June on the subject "Radioactive Piston Ring Wear Studies in a 6000 Horsepower Marine Diesel Engine." His family accompanied him to Europe.

QUALLS—Ralph A. Qualls recently was promoted to the position of supervising highway engineer with the maintenance department of the California Division of Highways in Sacramento. He formerly was district maintenance engineer in Fresno.

Marriages

WINGFIELD-SPRECKELS – George Wingfield Jr. to Jane Turner Spreckels, July 4 in Atherton. The groom recently became a registered representative for Dean Witter and Co. in Reno.

1938

BECKETT—John C. Beckett served as chairman of the Pacific Energy Conversion Conference held in San Francisco in August. He is president of Paeco, a subsidiary of Hewlett-Packard Co., and has been active in the affairs of the American Institute of Electrical Engineers, sponsor of the conference, since undergraduate days. He and his wife and three sons recently moved from Marin County to Palo Alto.

COOK—Ira Cook recently completed 25 years in the broadcasting field. He is a disc jockey with KMPC, Los Angeles, and the station, with which he has been affiliated since 1949, plans a series of tributes to him throughout the month of October.

GEAR—Eugene V. Gear has been appointed director of market development of Fibreboard Paper Products Corp. in San Francisco. The division includes advertising, sales promotion, market research, sales analysis, and sales development. He formerly was director of the Creative Design Center at Fibreboard.

SIMPSON—Gary C. Simpson has joined the commercial production staff of N. W. Ayer & Son., Inc., in New York. He earlier was producer-director of an educational series for the New York State Education Department. He also had worked for National Broadcasting Co. in New York, producing such programs as Armstrong Circle Theater and Wide Wide World.

1939

CADWALADER—George L. Cadwalader recently was promoted to colonel in the Air

IRA COOK
See Class of 1938

Force Reserve. In civilian life he is an attorney and assistant trust officer in the San Francisco trust department of Crocker-Anglo National Bank.

EATON—John F. Eaton, formerly with General Milk Co., has joined Mead Johnson International Division as managing director for Belgium, Netherlands, and Luxembourg.

IWATA—Buddy T. Iwata of Livingston was the top vote collector among the 21 candidates for the five-man board of trustees of the newly-created junior college in the Merced LeGrand Union High School District. Subsequently he was elected chairman of the board, now planning the school. He is manager of the Livingston Farmers Association and director of Allied Grape Growers and United Vintners, Inc.

JIMENEZ—Kathleen Mills Jimenez had four offspring on hand to watch mom get her degree from Stanford in June! She specialized in teaching Spanish in elementary schools.

NETHERY—Dr. Harry A. Nethery has been appointed dean of facilities planning for the new South Bay State College which will open in southwest Los Angeles in 1964. He has been assistant superintendent of the Cupertino School District for the past five years.

VALLARINO—Antonio R. Vallarino has been appointed manager of the Sunnyvale branch of General Precision's Librascope Division. He joined the firm in 1953 and most recently had been operations manager at Sunnyvale.

1940

AUSTIN—Aubrey E. Austin Jr., president of Santa Monica Bank, recruited models from the Westwood Modeling School to assist him in a one-man campaign to solicit memberships for the Santa Monica Chamber of Commerce recently. A past president of the Chamber, he dubbed his team the "Santa rockettes" and provided space helmets for the girls in their "flight" around the city with him calling on prospects. He gained a lead in the drive.

CARY—Junius Y. Cary, MBA '42, Menlo Park certified public accountant, has been elected treasurer of the Peninsula Estate Planning Council.

CLANCY—Gerald Joseph Clancy has been appointed vice-president and general man-

er of W. C. Delbrueck & Co., wholesale lass jobbers in Portland, Ore. He has been the glass business in the Portland area for he past 15 years.

MACKEY—Martin Mackey has been appointed West Coast regional sales manager or H. H. Robertson Co., manufacturers of letal building specialities, with headquarters n San Francisco. He earlier had been manager of the Portland, Ore., and Washington, D.C., offices of the firm. He is a past president of the Washington Producers' Council, nc. He will live in Tiburon with his wife, Mary, and two children—Muffy, 14, and Haig, 2.

MOODIE—Gordon M. Moodie has been promoted to the new position of president of International Business Machines Corp.'s Electric-Typewriter Division. He joined IBM in 945 and most recently had been general manager of the division he now heads. He lso has served as director of personnel for he corporation.

TAOKA—Dr. George M. Taoka, AM '42, professor of foreign trade and transportation at he University of Toledo, was honored by lpha Kappa Psi, business fraternity, as the Outstanding Faculty Member of the Year" at the group's annual banquet in May. He s adviser to the group and was presented ith a certificate and engraved key citing his work and inspiration during the past five ears."

Marriages

LEEP-LEEP—Ann Eaton Leep and Elwood Leep were remarried Aug. 5 in Menlo Park. hey will live in Menlo Park.

1941

BLACK—Charles A. Black, former director of narketing services for Ampex Corp., Redwood City, has been named assistant to the resident. He joined Ampex in 1957 and efore that was with Stanford Research Institute and the Hawaiian Pineapple Co.

JACKSON—Roy P. Jackson has been named ice-president and assistant general manager f the Northrop Space Laboratories, Hawthorne. With more than 20 years of experence in the design and development of high performance airplanes and missile systems, he most recently was assistant general operations manager of Aeronutronics' Space Systems Operations. He earlier was with Northrop from 1953 to 1957. He is the 1962–63 president of the Stanford Club of Orange County.

BUDDY T. IWATA
See Class of 1939

MILLWARD—June Paulson Millward was a winner in the KGO (San Francisco) Shop-'O' Ree Contest sponsored by the station and MJB coffee. She won $50 worth of groceries at Sid's Market in Castro Valley in the five minute run-off.

See Page 32

BOAS—Roger Boas, a member of the San Francisco Board of Supervisors, has been named chairman of a committee to advise the supervisors on commercial and industrial development in the South of Market area.

GEHRELS—Dr. Franz Gehrels, MBA '47, PhD '53, has been promoted to the rank of professor of economics at the University of Indiana.

KELSEY—John T. Kelsey, wholesale distributor for Standard Oil Co. in Valdez, Alaska, and president of Valdez Dock Co., has been appointed one of a six-man board of directors of the Alaska State Development Corp. The board was selected after the legislature designated that such a body should encourage the development of new business in Alaska and give aid to existing businesses. Kelsey also is serving as mayor of Valdez.

McDONALD—Douglas B. McDonald recently opened new offices for the practice of law in Sacramento.

POLLOCK—John P. Pollock has joined with Max Frank Deutz in the formation of a law firm in Los Angeles to be known as Pollock and Deutz. For the past two years in independent practice, he earlier had been associated with O'Melveny & Myers and Musick, Peeler & Garrett.

STAHLE—Douglas C. Stahle, former industrial manager of dairy sales for Crown Zellerbach Corp.'s Western-Waxide Division at San Leandro, has been named sales manager for the San Leandro plant. He joined the firm in 1945 as a salesman with Zellerbach Paper Co. He lives in Piedmont with his wife and four children.

Marriages

KERN-FAULKNER—Paula Stephenson Kern to George C. Faulkner, May 23 in Gardnerville, Nev. They will live in San Rafael.

1943

DRISCOLL—John Timothy Driscoll has been appointed assistant to the general manager, transportation and supply department, of Richfield Oil Corp., Los Angeles. He lives in Pasadena with his wife and four children.

SEMELMAN—Barbara Blum Semelman, AM '48, has been elected a director of Blum's Direct Advertising Agency, Inc., San Francisco. She is a vice-president of the firm which is a division of Advertising Distributors of America.

1944

BINNEY—Frank Binney is vice-president of Cash Bargain Lumber Co. of Kansas City and manager of Harriman Sash & Door Co. and Cash Lumber Outlet of Independence, Mo. He recently moved to Independence with his wife, the former Manetta Harriman, '45, and four children. Additionally, he has been elected a director of K. C. Dealers Wholesale Co.

BOOTHE—Ferris Boothe's (LLB '50) work with the Portland law firm with which he has been associated for several years has been recognized by a name change from Black, Kendall & Tremaine to Black, Kendall, Tremaine, Boothe & Higgins.

METTLER—Dr. Ruben F. Mettler, MS '47, PhD '49, president and director of Space Technology Laboratories, presided at the recent dedication of the Space Technology Center in Redondo Beach. He joined the Thompson Ramo Wooldridge subsidiary in 1955 and was executive vice-president from 1958 until becoming president early this year. He earlier was with Hughes Aircraft Co. and the Department of Defense.

ZENTNER—Rene D. Zentner, a patent attorney at Shell Development Co.'s Emeryville Research Center, has received a special two-year assignment with the firm's licensing division in New York. He has been with Shell since 1957.

1945

BALLA—Dr. George A. Balla has been named assistant clinical professor of surgery (oncology) at Baylor University Dental College, Dallas. He also is director of the applied clinical section of the cancer research division of the Sammon's Department of Irradiation Therapy and Nuclear Medicine at Baylor.

DAVILA—Dr. Julio C. Davila, MD '49, heart surgeon and research director of the Presbyterian Hospital in Philadelphia, has been appointed clinical professor of surgery at the Temple University School of Medicine. He also will serve as chief of the newly-created Thoracic and Cardiac Surgical Section at Temple.

DUNCAN—Dr. Donal B. Duncan has been named assistant general manager-operations of Ford Motor Co.'s Aeronutronic Division at Newport Beach. He joined the firm in 1959 and had been general operations manager of the division's space systems operations. Earlier he was with North American Aviation.

ELLIOTT—James Randolph Elliott, LLB,

ANTONIO VALLARINO
See Class of 1939

GORDON M. MOODIE
See Class of 1940

MARTIN MACKEY
See Class of 1940

'51, has been named a director of Pacific Lighting Gas Supply Co. He is assistant counsel and secretary of the Los Angeles-based natural gas storage and transmission subsidiary of Pacific Lighting Corp.

HOPWOOD—John Hopwood, a captain in the Judge Advocate General's Department of the Air Force Reserve, has received a reserve assignment as Judge Advocate area representative for Southern Orange County. A staff associate with the Ford Motor Co.'s Aeronutronic Division, he lives in Irvine Terrace.

SMALL—Lucy Vance Small, her husband Richard, and their children, Lowell, 8, and Laura, 6½, have moved from their longtime home in Winchester, Mass., to Dallas, Tex., where Mr. Small is associated with Texas Instruments.

Births

WEINBERG—To Mr. and Mrs. James M. Weinberg, '45, a son, Jon Nelson, April 27 in Glendale. The father is an attorney for the Music Corporation of America at Revue Studios, Universal City.

1946

EMERSON—The Rev. James Gordon Emerson has written *Divorce, the Church, and Remarriage,* which was published last year by Westminster Press. It was among the selections of the Religious Book Club of America and the Pastoral Psychology Book Club. Dr. Emerson spoke at Stanford Memorial Church on August 11. "The Church: Challenged or Challenging in Our Time" was his subject. He is senior pastor of Westminster Presbyterian Church, Bloomfield, N.J.

MONTGOMERY—The Rev. Andrew Montgomery has been called to the pastorate of the First Presbyterian Church of Arcata, Calif.

Marriages

MONG-BRANDON — Ellen Webb Boyden Mong to Frank C. Brandon, Aug. 10, 1961. They live in Atherton.

Births

JONES—To Dr. and Mrs. Philip N. Jones, '46 (Rebecca Means, '44), a daughter, Margaret Jane, April 11. She joins Robert and Rebecca.

1947

REUNION
Nov. 23, 1962
See Page 32

CAVIN—Patricia Burwell Cavin has been elected the 34th president of the Women's National Press Club. She has been with WRC, the National Broadcasting Co. station in Washington, for the past eight years. Her interview program is broadcast each weekday from 12:15 to 1:00 p.m.

CHALLAIN—Leonard J. Challain recently was promoted to the rank of commander in the Navy and has been assigned to the procurement and production directorate, Defence Supply Agency, Washington, D.C.

KIRKHAM—Lt. Col. Oscar N. Kirkham recently completed the two-week associate command and general staff course at the Command and General Staff College, Fort Leavenworth, Kan. A reserve officer, he is assigned to the Fresno U. S. Army Reserve School and in civilian life is with Bank of America in Merced.

PEARSON—Daryl H. Pearson, associate General Secretary of Stanford, has been elected vice-president of the Peninsula Estate Planning Council.

RENSCH—Joseph R. Rensch, vice-president of Pacific Lighting Gas Supply Co., has been elected a director of the Los Angeles-based natural gas storage and transmission subsidiary of Pacific Lighting Corp.

ROSS—William B. Ross, MBA '49, has been named president of Security Savings and Loan Association, a subsidiary of California Financial Corp. Formerly in the life insurance business, he had been a vice-president of Security Savings for the past year.

SQUIRE—The Rev. Ray P. Squire is minister of Community Methodist Church, Klamath, Calif.

STRUCK—Frederick H. Struck has been promoted to assistant cashier in the commercial loan division of Wells Fargo Bank. He joined the bank in 1949 and served as a senior analyst in the credit department.

WILSON—Edwin Mark Wilson, vice-president and director of Thompkins and Co., San Francisco insurance firm, has been promoted to the rank of captain in the Naval Air Reserve. He is assistant wing staff commander with the Naval Air Reserve Training Unit at Alameda Naval Air Station.

Births

DONOHUE—To Mr. and Mrs. John F. Donohue, '47, MBA '49, a daughter, Meredis born Sept. 4, 1961. She joins Kelly, 4, and Katy.

1948

BLUM—Robert C. Blum has been elected secretary-treasurer of Blum's Direct Advertising Agency, Inc., San Francisco, a division of Advertising Distributors of America.

BUSSE—Norman W. Busse attended a Naval Reserve management/supervision seminar at William Jewell College, Mo., in August. A lieutenant commander in the Naval Reserve, he is commanding officer of the Communications Division meeting at Treasure Island. In civilian life he is studying law at the Hastings College of Law of the University of California.

DICKEY—Frank B. Dickey, manager of Anaconda Wire & Cable Co.'s Magnet Wire Division, has been promoted to vice-president of the division. His office will be at the Muskegon, Mich., mill of the firm's national magnet wire operation. He joined Anaconda as a salesman in San Francisco in 1948.

EAGLE—Alan Rich Eagle, MBA '49, is returning to the Peninsula this month after years of representing Stanford Research Institute in the Zurich, Switzerland, headquarters.

ESHLEMAN—Winston Eshleman, AM '51, has been appointed director of materials, equipment and resources centers for the Amphitheater Public Schools in Tucson, Ariz. For the past four years he had taught social sciences at Grossmont High School near San Diego.

HARTLEY—Hollis Hartley, LLB '51, and his wife, the former Sally Mayock, Gr. '49, lost their oldest son, Stephen Mills, in May when he succumbed to complications following the onset of diabetic acidosis and sub-acute bacterial entenitis. He had two brothers, Robert and James, and a sister, Margaret. The family lives in San Bernardino.

LEVISON—Robert M. Levison Jr., a partner in the insurance firm of Levison Brothers, has been elected the 24th president of the Society of Insurance Brokers of Northern California, the youngest man to have held this position. He is the fourth generation in his family to be active in insurance in San Francisco. He lives in Atherton with his wife, the former Anne Lehmann, '50, and three children.

SANDERS—Ray Sanders, director of Space General's Control and Information Systems Division, served as chairman of the session on communication theory and techniques at the National Telemetering Conference in Washington, D.C., in May. He lives in Westwood with his wife and two children.

SPENCER—Dean Brodie Spencer has been named assistant director of employee relations for CAT Airline with headquarters in Taipei, Taiwan. He has been with the Hawaii Employers Council for seven years, the employee-union relations department and negotiation services department.

Marriages

AYES-BETTS — Barbara Lang Hayes to rt A. Betts, July 11 in San Francisco. The oom is treasurer of the State of California d the bride is city attorney of Carlsbad and s a private law practice in San Diego.

1949

INDER—Dr. Arnold M. Binder, PhD '53, s been promoted to the rank of professor of ychology at the University of Indiana.

HILOTTI—Bob Ghilotti, former end coach Stanford and the University of Colorado, s joined the staff of the Dallas Texans, pro otball club, where he will again be coaching rmer Stanfordite Chris Burford.

REEN—Alan (Punch) Green has been lected president of Tom Benson Glass Co., c., Portland, Ore. With the firm for a num- er of years, he earlier had been vice-presi- ent. He succeeds another Stanfordite as esident—C. G. (Chet) Patton, '38. Patton, ho has left the company to enter another usiness field, will continue along with Green a member of the board of directors of om Benson Glass.

EMPTER—Dr. Charles P. Kempter, MS '50, hD '56, of the Los Alamos Scientific Labora- ry of the University of California, has been lected a fellow of the American Institute of hemists.

MORECI—Dr. Anthony P. Moreci, AM '52, hD '58, has been appointed assistant pro- essor of physiology at Baylor University Col- ge of Medicine, Houston. He has been a esearch fellow for the U.S. Public Health ervice and a research associate at Stanford.

TODD—W. Murray Todd, MBA '51, has oined the staff of the National Academy of ciences in Washington, D.C., as executive ecretary to the Foreign Secretary. He and is wife, the former Judith Whipple, '51, and heir two sons, have moved to Bethesda, Md., rom Palos Verdes Estates.

Marriages

REICHERT-KLEMMER—Dr. Erida Louise euschner Reichert to Dr. Howard Wesley lemmer, Aug. 7 in the Stanford Memorial hurch. They will live in Honolulu where oth practice medicine.

Births

ARRY—To Dr. and Mrs. Gronway R. Parry, 49 (Elizabeth Crowe, '47), a son, William renholm, Nov. 21. He joins Linda, 13, haunce, 9, and Gronway III, 4. The father ractices obstetrics and gynecology in Los ltos.

SCHALLICH—To Mr. and Mrs. Richard L. challich, '49, their fourth child and third on, Terence James, Dec. 21 in Salinas. The ather is an electrical contractor in Salinas.

SLOSS—To Mr. and Mrs. Leon Sloss, '49, a daughter, Laura Jane, in July in San Fran- cisco. She joins Deborah, David, and Michael.

WALKER—To Mr. and Mrs. John N. Walker, 49, MS '51, a son, Jon Jeffrey, July 25. He joins Mark Steven, 7½, David Scott, 6½, Gregg Stewart, 5, and Paul Russell, 2.

WOOD—To Mr. and Mrs. Robert R. Wood, 49, their third daughter, Wendy Margaret, May 25 in Palo Alto. She joins Carol, 3½, and Sally, 2.

1950

ANDERSON—Frederick S. Anderson recently was transferred from Tegucigalpa, Honduras, to Panama City, Panama, in his position of chief of mission for CARE, Inc. His wife is the former Patricia Mooney, '49.

AYA—Alfred A. Aya Jr. recently completed the refresher course at the Army Command and General Staff College, Fort Leavenworth, Kan. A major in the Army Reserve, he is assistant operations officer of the 91st Division, San Francisco. In civilian life he is a statistician with Pacific Telephone and Telegraph Co.

BICKERS—Michael S. Bickers of General Dynamics/Astronautics of San Diego has been appointed chief activation engineer at Plattsburgh Air Force Base, N.Y. Astronautics is the integrating contractor for the site activation of the Atlas Missile. Bickers joined General Dynamics in 1961.

BOHLKE—Dr. James E. Bohlke, PhD '54, who holds the Chaplin Chair of Ichthyology at the Academy of Natural Sciences of Philadelphia, is working on a handbook of Bahama fishes and made three field trips in the area during the past year.

BRINER—Conrad Briner, AM '53, EdD '58, has resigned his position at the University of Chicago to accept an associate professorship at the Claremont Graduate School. He and his wife, the former Diane Wasson, '50, have three children: Lisa, 6, Martin, 4, and Susan, 2.

CASWELL—Edwin Wilson Caswell Jr. is assistant export manager, Pacific Coast, for Continental Grain Co. He lives at Lake Oswego, Ore.

FINDLAY—Berrien H. Findlay has been presented with a certificate of public service for his contribution to the founding of a Legal Aid Society in San Bernardino. The presentation was made at the recent National Legal Aid and Defender Conference in San Francisco.

HARDY—Lois Lynn Croonquist Hardy, AM '52, has been named "Musician of the Year for Contra Costa County." She is dean of the American Guild of Organists, vice-president of the county Music Teachers Association, and operates the Lois Lynn Hardy Music Studio in Danville. She is the author of several books in the field of education. Her husband is John Weston Hardy, '50, AM '52, PhD '55. They have two daughters.

ROY P. JACKSON
See Class of 1941

CHARLES A. BLACK
See Class of 1941

HOFF—Lawrence C. Hoff has been promoted to divisional sales manager of the Dallas branch of the Upjohn Co. He joined the firm's sales department in San Francisco in 1950 and most recently had been at the home office in Kalamazoo in the sales education unit.

OVERMAN—The Rev. Richard H. Overman, MD '54, has received a Dempster Graduate Fellowship for postgraduate study in religion from the department of ministerial education of the Board of Education of the Methodist Church. He is working toward a doctor of philosophy degree at Claremont Graduate School, specializing in philosophy of religion. A graduate of Southern California School of Theology, he is associate minister of the Montclair, Calif., Methodist Church.

Marriages

LEVISON-NAPOLITANO — Barbara (Timmy) Levison to Joseph E. Napolitano, June 19 in Arlington, Va. The bride, who received her master's in sociology from the University of California, has been with the Peace Corps since early in 1961. She has had assignments in Ceylon and India and in Washington was in charge of the India, Ceylon, and Nepal desk for projects and planning.

ODELL-BATEMAN—William Rice Odell III to Shelagh Ann Bateman, July 28 in Washington, D.C. They will live in Washington where the groom is a reporter with the *Washington Daily News*, covering the federal courts.

Births

FRIEDMAN—To Dr. and Mrs. Leonard Z. Friedman (Suzanne Margulis, '50), a son, Steven Louis, May 23. He joins Julie Margo, 3½.

GROWDON—To Mr. and Mrs. John B. Growdon Jr. (Maribeth Harelson, '50), a daughter, Elizabeth Jane, May 7 in Chico. She joins Sara, 7, John Michael, 5, and Stephen, 1.

SHALZ—To Mr. and Mrs. Bernard Shalz (Catherine Zupan, '50), a daughter, Antonia Marie, May 27. She joins Mary Louise, 5, Bernard L. Jr., 4, and Michael Thomas, 2.

SNOW—To Mr. and Mrs. A. Lyle Snow, '50, a son, Christopher Dane, Aug. 7 in Arcadia. The father is assistant manager of the Covina office of United California Bank.

JAMES RANDOLPH ELLIOTT
See Class of 1945

1951

CHURCH—McGregor L. Church has been appointed a resident in orthopedic surgery at the University of Oregon Medical School hospitals and clinics in Portland.

LAWSON—Robert B. Lawson is vice-president in charge of operations for Diamond Springs Lime Co.

MYERS—William G. Myers, MBA '53, vice-president of the Newhall, Calif., Land and Farming Co., has been elected a member of the board of Valley Federal Savings and Loan Association's Newhall-Saugus office.

ROTHE—Max D. Rothe received the professional degree of master of engineering (transportation engineering) from the University of California Institute of Transportation and Traffic Engineering in June. He recently was promoted to senior highway engineer in the planning surveys section of the California Highway Department in Sacramento. He formerly was assistant district materials engineer in the Stockton office.

SHELLING—Claus H. Shelling, MBA '54, has qualified for the fourth time for Mutual of New York's National Field Club, an annual sales-honor organization. He is associated with MONY's agency in Palo Alto.

WILBUR—Dr. Dwight L. Wilbur III, MD '55, has been awarded a year's fellowship in gastroenterology at the University of Michigan Hospital, Ann Arbor.

Births

FARR—To Dr. and Mrs. Robert C. Farr, '51, MD '55 (Jacque Selleck, '53), a son, Eric Thomas, April 19. He joins Michael, 5, David, 3½, and Bruce, 2. The father is chief surgical resident at Kern County General Hospital.

HEWITT—To Mr. and Mrs. Charles Hewitt, '51 (Helen Jameson Todd, '58), a daughter, Deborah Joy, Aug. 9. The father is teaching in the Santa Monica School District.

HOLMAN—To Mr. and Mrs. Dean E. Holman, '51, MBA '52, a daughter, Carolyn Joanne, March 14. They live in Palo Alto.

SUBBOT—To Mr. and Mrs. Edwin Subbot, '51, a daughter, Veronica Joyce, Aug. 22, 1961. She joins Donna Beth, 5. The father is executive assistant for Sidco Manufacturing Co., Hialeah, Fla.

1952

See Page 32

BORDALLO—Paul J. Bordallo settled on Guam (after receiving his MBA from Harvard and two years in the Army) and is active in finance, insurance, and real estate on the Island. He is president of Family Finance Co., which he organized, and serves as vice-chairman of the board of trustees of Guam Memorial Hospital.

CALLAHAN—Ernestine Stanbery Callahan has been appointed to the faculty of Adams State College, Alamosa, Colo., where she will teach freshman English.

CHRISTENSEN—The Rev. Clifford M. Christensen, assistant pastor of Inglewood First Baptist Church, received his bachelor of divinity degree from California Baptist Theological Seminary, Covina, in June.

DENNY—George V. Denny III recently opened offices for the practice of law in Beverly Hills after serving as a deputy District Attorney in Los Angeles County for three years. He recently published a prosecutor's manual for the trial of "drunk driving" cases, entitled *Driving Under the Influence of Alcohol—Prosecution of the Case.* He and his wife, the former Barbara Lawler, '52, have a daughter.

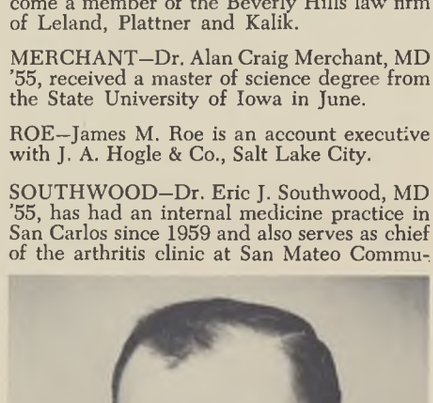
KING—The Rev. Leon King is the new minister of St. Stephans Presbyterian Church, North Highlands (Sacramento County). He earlier had been an assistant minister at Chico.

KLEIN—Richard A. Klein, LLB '55, has become a member of the Beverly Hills law firm of Leland, Plattner and Kalik.

MERCHANT—Dr. Alan Craig Merchant, MD '55, received a master of science degree from the State University of Iowa in June.

ROE—James M. Roe is an account executive with J. A. Hogle & Co., Salt Lake City.

SOUTHWOOD—Dr. Eric J. Southwood, MD '55, has had an internal medicine practice in San Carlos since 1959 and also serves as chief of the arthritis clinic at San Mateo Community Hospital. He recently moved to a house in San Carlos with his wife and youngsters.



RUBEN F. METTLER
See Class of 1944

STAGER—Don K. Stager has been sent by Guy F. Atkinson Co. to the Mangla Dam Project in West Pakistan. He is assistant general superintendent on the $350 million project sponsored by the World Bank. His wife, Anne, and four children joined him in September.

WHITE—Charles W. White has been named publisher of the Kewanee, Ill., *Star-Courier*. He had been business manager of the paper since 1959. A director of the Kewanee Chamber of Commerce, he has been active in a number of civic groups.

Marriages

COBERLY—Russell Wallace Coberly, '59, to Mary Barbara Schramm, '59, July 7, at the Stanford Memorial Church.

Births

MOLLER—To Mr. and Mrs. Charles M. Moller, '52, a daughter, Kerrin Jessica, May 3. She joins sisters Kristell, 6, and Kathleen, 5, in Petaluma.

PARKER—To Mr. and Mrs. Richard Parker, '52, a son, Hugh Anthony, Dec. 6. He joins a brother, James Timothy, 3. The father is a natural gas consultant in Amarillo, Tex.

WOLF—To Mr. and Mrs. Bennett L. Wolf (Susanne Alter, '52), a son, David Alan, Sept. 11, 1961. He joins Teresa Louise, 5. The father is assistant vice-president of Household Finance Co. and director of supervision for the Western States.

1953

CUTTER—Patricia Brooks Cutter and her husband, Curtis, are preparing to move from Washington, D.C., to Lima, Peru, where Curtis is being assigned as a Foreign Service Officer at the American Embassy. She received her master of arts in psychology from the American University in June and plans to teach while in Peru. The Cutters have two children.

EVANS—Hugh Evans Jr. has been elected president of Western Federal Savings and Loan Association, Los Angeles. He is a founder and director of the Los Angeles Opera Co. and active in the Chamber of Commerce and the United Savings and Loan League.

FEUCHT—Otto Feucht, MBA '55, has been named vice-president and general manager of the Pacific Adult Radio stations (KASH, Eugene; KAPT, Salem; K-SHA, Medford and KEST, Boise). He recently moved to Yoncalla, Ore., from Palo Alto where he was active in electronics manufacturing. The PAR stations, all built in the past year and a half, stress quality music and community service programs. Headquarters are at the KATR studios. Feucht is married to the former Lois Rehfeldt, '55. They have three children, Jennifer, 8, Weston, 5, and Randolph, 1.

KWONG—George Kwong, who began his career as a carrier for the *Palo Alto Times* while in high school, has been appointed assistant circulation manager of the paper. He had been in charge of the Mountain View circulation district for the past three years.

MURRAY—Thomas H. Murray received the master of science in mineral engineering from the Colorado School of Mines in June.

ITHERLING—Capt. Elton W. Sutherling, BA '53, is commanding officer of the Navy dnance Supply Office at Mechanicsburg, ... which has world-wide control of Navy dnance equipments and spare parts as well ammunition. Cmdr. Stuart J. Evans, '54, also stationed at the office.

HOMPSON—Ross B. Thompson, MBA '55, s been named assistant treasurer of Litton dustries, Inc. He joined the firm in 1958 d most recently was assistant to the vice-esident and treasurer. He and his family e in Pasadena.

Births

EININGER—To Mr. and Mrs. John L. Fein-ger (Marilyn Macfarlane, '53), a son, John udon Jr., April 7. He joins Anne, 6, and rbara, 3½. The family recently moved from lumbia, S.C., to Buffalo, N.Y.

AY—To Dr. and Mrs. Ferdinand J. Gay Jr., 53, a daughter, Lisa Gabrielle, June 16 in okosuka, Japan. The father is stationed in e neuropsychiatry department at the U.S. aval Hospital, Yokosuka.

ENNINGER—To Dr. and Mrs. Walter W. lenninger, '53 (Connie Libbey, '53), a son, arian Stewart, June 30 in El Reno, Okla. e joins Fritz, 5, John, 3½, and Eliza, 21 onths.

ILLER—To Dr. and Mrs. John Rodgers iller, '53, MD '57 (Joan Andreas, '54, AM 5), a second daughter, Michele Ann, July 3 in Riverside. She joins Wendy, 3. Dr. iller recently completed his opthalmology sidency at Presbyterian Medical Center in an Francisco and has established a private ractice in Riverside.

ULLIVAN—To Mr. and Mrs. Robert Graham ullivan (Joanne Klemmedson, '53), a son, hristopher Erick, May 5. He joins a sister, eslie Graham, 1½. The father is a partner the San Diego law firm of Orfield, Thomp-n, & Bunker.

1954

ATHCART—Dr. Robert F. Cathcart III is n his first years of residency in orthopedic urgery at Palo Alto-Stanford Hospital.

ORLEY—John Jay Corley, Los Angeles in-rance executive, has been named president the Covina-based North American Corre-pondence Schools. General partner of the orley Co., general insurance brokers, he also a director of North American and has been ssociated with the firm for two years. North merican recently merged with National Sys-ems Corp., mail order and systems training rm, and will be a division of National Sys-ms. Corley also serves as a director of veral other Southern California financial in-itutions.

DUQUE—Henry M. Duque has been elected ssistant vice-president of Western Federal avings and Loan Association, Los Angeles. He earlier was an assistant cashier with Union ank in Los Angeles.

FRAKES—George Frakes, AM '58, has re-eived an appointment as a history instructor t Santa Barbara City College. For the past hree years he has taught social studies at an Marcos High School in Santa Barbara. He lives in Santa Barbara with his wife, the former Kay Davies, '54, and children Jimmy, 5, and Laura, 2.

HIEBERT—Dr. Ray Eldon Hiebert has been appointed chairman of the department of ournalism and public relations at the Ameri-can University, Washington, D.C., and pro-moted to associate professor. A member of the school's faculty for four years, he earlier taught at the University of Minnesota.

LINDBERGH—Jon Lindbergh has formed Explosive Engineering Corp., San Diego. The firm will handle underwater explosive jobs.

MILLER—Dr. Kenneth E. Miller received his medical degree from Hahnemann Medical College, Philadelphia, in June, and is an in-tern at San Diego County Hospital. He is married and has two children.

SHELTON—Thomas C. Shelton has been appointed assistant manager at Security First National Bank's Wilshire and Bedford branch in Los Angeles. He joined the bank in 1957 and earlier was assistant manager at the Cul-ver City branch.

Marriages

RUSSELL-COLLINS—Ronald G. Russell to Susan L. Collins, Jan. 13 in Beaufort, North Borneo.

Births

BARRETT—To Mr. and Mrs. James C. Bar-rett Jr., (Chloe Nye, '54), a son, James Thompson, June 21 in Pasadena. He joins Lynne, 5½, Jill, 4, and Anne, 1½. The father is an assistant vice-president of Security First National Bank.

FRUSETTA—To Mr. and Mrs. Peter C. Fru-setta, '54, a son, Jack Charles, June 27. He joins Robert Maurice and Jennifer Josephine.

FULLER—To Mr. and Mrs. Wayne P. Fuller, '54, LLB '57 (Margaret Cathcart, '56), a son, Neal Andrew, May 15 in Caldwell, Idaho. He joins Douglas, 6, and Leslie, 3. The father is a partner in the law firm of Brauner & Fuller in Caldwell. Maternal grandparents are Mr. and Mrs. Wallace D. Cathcart, '27, LLB '30 (Eleanor Hanford, AM '29). Ma-ternal great-grandfather is the late Arthur M. Cathcart, '96.

GINTER—To Mr. and Mrs. Donald E. Ginter, '54, AM '55 (Beverly Kennedy, '55), a daugh-ter, Amelia Margaret, Dec. 11 in London. She joins Anna Catherine, 2. The father has received an extension of his Social Science Research Council grant for research in Eng-land for the academic year 1962–63. He will teach English history at Duke University for the year 1963–64.

JOSEPH R. RENSCH
See Class of 1947

EDWIN MARK WILSON
See Class of 1947

HELSING—To Mr. and Mrs. Duffern H. Hel-sing, '54, LLB '60 (Nancy Pollard, Gr. '53–54), a daughter, Lisa Anne, May 2 in Orange, Calif. She joins Jeffrey, Mark, Karen, and Kathleen. Maternal grandparents are Mr. and Mrs. Glenn Eugene Pollard, '23 (Barbara Bledsoe, '25). Maternal great-grandparents are Katharine Sheplar Bledsoe, '98, and the late Judge Benjamin F. Bledsoe, '96. The father is a deputy District Attorney for Orange County.

HENNINGER—To Mr. and Mrs. Larry E. Henninger, '54 (Amber Spinning, '55), a son, Derek Philip, June 12. He joins a brother, Dwight, 2½. The father is a facilities planner for Philco in Palo Alto.

TARLOW—To Mr. and Mrs. Lawrence Tar-low, '54, a daughter, Mary Carol, June 8 in Portland, Ore. She joins Stefan and David. The father is associated with Tarlow Furni-ture Co. in Portland.

1955

BLACK—William F. Black has been elevated from assistant vice-president to vice-president of Guaranty Bank, Phoenix. Prior to joining the bank in 1961 he was a member of the staff of former Vice President Richard Nixon.

FILLION—Nancy Grumm Fillion and her family are living in Winnetka, Ill. Her hus-band, Pete, is a broker in Chicago. They have three children, Barbara, 6, Bill, 4, and Marcia, 1.

GARDNER—W. John Gardner has been pro-moted from credit analyst to assistant cashier at Wells Fargo Bank's Market-Montgomery St. office in San Francisco. He joined the bank in 1959.

HAWES—James L. Hawes received his PhD in chemistry from Brown University in June. His thesis was on "Ionic association in the alkali halides: the conductance of potassium chloride and cesium chloride in ethanol-water mixtures at 25 degrees centigrade."

HORNING—John C. Horning Jr. has become associated with the Palo Alto law firm of Moerdyke and Anderson. He completed his law studies at Stanford after serving in France with the Air Force.

PACIULLI—Dr. John Robert Paciulli is on a two-year assignment with the U.S. Public Health Service at Fort Defiance, Ariz., where

WINSTON ESHLEMAN
See Class of 1948

he will care for Indian children. He completed two years of residency in pediatrics at Palo Alto-Stanford Hospital. A daughter, Susan Gail, was born last December.

RANDAU—Paul Clemens Randau received a master of science degree from the State University of Iowa in June.

TUBAN—Mark Tuban was elected national vice-president for Navy affairs of the Reserve Officers Association of the United States at the 34th annual convention at Las Vegas in June. A retired lieutenant colonel in the Marine Corps Reserve, he has a Ford dealership in Mountain View.

VERNAZZA—J. Ben Vernazza, AM '56, has been named controller of Contadina Foods, Inc., San Jose. He is a certified public accountant and lives in Los Gatos with his wife, the former Lorraine Maison, AM '56, and their two children.

WATERS—Ruth Jahnke Waters had some of her wood sculpture exhibited at the Gallery House at Ladera in June.

WEST—Dr. William Ferguson West, MD '58, has been appointed a resident in orthopedic surgery in the Mayo Foundation at Rochester, Minn.

Marriages

GINEVRA-KING—Josephine Ginevra to Paul Daniel King, Jan. 27 in Alhambra. They will live in Pasadena.

Births

BRADFORD—To Mr. and Mrs. David L. Bradford, '55, MBA '57 (Sue Shidler, '57), a daughter, Anne Elizabeth, June 21 in Pasadena. She joins Linda, 3, and Steven, 1½. The father is a computer specialist with the Burroughs Co.

BROUN—To Capt. and Mrs. Leroy A. Broun, '55 (Margaret Dalgliesh, '55), a daughter, Elizabeth Anne, June 10 in Bangor, Maine. The father is stationed at Dow Air Force Base, flying B-52s as a radar navigator. The mother is newly-elected second vice-president of the Bangor Branch of the American Association of University Women.

FARMER—To Mr. and Mrs. Mark L. Farmer, '55, a son, Frederick Williams, June 21 in New York City. Paternal grandfather is Professor Edward M. Farmer of Stanford. The father is an artist with his home and studio in New York City.

HERZSTEIN—To Dr. and Mrs. Martin J. Herzstein, '55, a daughter, Marsha Louise, April 22. She joins Neil Michael, 4. The father has dental offices in Hawthorne, Calif.

TERRY—To Mr. and Mrs. John T. (Tim) Terry, '55 (Sally Anne Beeman, '56), a son, Michael Timothy, June 19 in Los Angeles. He joins a sister, Victoria Elizabeth, 3.

1956

COCHRAN—James Alan Cochran received his PhD in mathematics from Stanford in April and has joined the technical staff of the Bell Telephone Laboratories in Whippany, N.J. During the winter season he and his wife, the former Katherine Kern, '59, toured Europe. Their Italian "guides" were the Israelachivilis (Marcel, MS '58, and his brother, Emanuel, '62) of Milan.

DAVIS—Dr. Gregory A. Davis, assistant professor of geology at the University of Southern California, participated in the American Geological Institute's international field study in the Alpine areas of Switzerland, France, Italy, and Austria in July and August.

HENIGAN—Richard A. Henigan of the Golden Gate agency of California-Western States Life Insurance Co., has been presented with the 1962 National Quality Award of the National Association of Life Underwriters and the Life Insurance Agency Management Association. The award is presented annually and based upon service to clients and to the institution of life insurance.

JOHNSON—Merritt Johnson, manager of radio station KEYM-FM, Santa Maria, has been named a member of the Santa Maria Planning Commission.

JONES—Gordon Scott Jones Jr. spent two weeks of active duty at the Oakland Army Terminal in July. A first lieutenant in the Army Reserve, he is regularly assigned as assistant operations officer with the 355th Transportation Battalion, a reserve unit at Fort Mason.

KING—David Windsor King received a master of arts degree from Long Beach State College in June.

LEONG—Dr. William Leong Jr. recently was commissioned a captain in the Air Force has completed the orientation course for cers of the medical service at Gunter Force Base, Ala. He has been assigne the Air Force Hospital at Wakkanai Air tion, Japan.

LOIS CROONQUIST HARDY
See Class of 1950

MARSHALL—Chris Marshall recently transferred to Tacoma, Wash., where he be mill superintendent for the Cont Corp. of America. His wife, the former Sawyer, '59, plans to teach in Tacoma.

PALMER—Samuel C. Palmer III has be associated with the new Los Angeles law of Pollock and Deutz. A former deputy Attorney of Los Angeles, he had been ciated with John P. Pollock for the past years.

Marriages

CHRISTIANSEN-PUTNAM—Robert tiansen, AM '59, PhD '61, to Susan Pu '60, AM '61, June 23 in the Stanford M ial Church. They will live in Palo Alto the groom is with the U.S. Geological Su

GULICK-HOTH—Albert Allan Gulic Marilyn Kay Hoth, '61, recently in the ford Memorial Church. They will liv Palo Alto. The groom is with A. C. N Co., Menlo Park.

REID-CAMPBELL—James T. Reid to C. Campbell, July 7. They will live in cago.

Births

CRANDALL—To Mr. and Mrs. Ken Hartley Crandall Jr., '56, MS '57 (Janet vais, '57), a daughter, Diana Claire, Ma She joins a sister, Cecily, 2½. The fat a research engineer at Lockheed in Su vale. Paternal grandfather is Kenneth ley Crandall, '24.

FINKEN—To Mr. and Mrs. Roland Fi AM '58 (Nancy Arndt, '56, AM '57 daughter, Debra Diane, April 1 in San cisco. She joins Susan, 2. They live in cifica where the father is an administrat the Laguna Solada School District. mother is president of the Pacifica Bran the AAUW.

SCHNAKENBERG—To Mr. and Mrs. W Schnakenberg (Dorothy Dierker, '56 daughter, Leslie Lyn, May 12 in Or Calif. She joins Kim Diane, 3½, and D Kay, 2½ The father is teaching science junior high school at La Habra.

1957

REUNION
Nov. 23, 1962
See Page 32

BAKER—Dr. Cleve B. Baker recently commissioned a captain in the Air Force has completed the orientation course for ical service officers at Gunter Air Force Ala. He has been assigned to the 823rd cal Group, Homestead Air Force Base,

CONNELL—Dr. Michael L. Connell is ing as a resident in psychiatry at the B Psychopathic Hospital—a civilian res while on active duty with the U.S. P Health Service, National Institute of M Health. He is a graduate of Harvard Me School. He and his wife, the former G Alexander, have a son, Kevin Alexander. Connell reports that other residents at Boston hospital include Douglas W '57, Loren Mosher, '56, and Jack Katzow, '60.

ARDLEY—Dr. Warren Eardley, who received his medical degree from Baylor University in 1961, is a resident in pediatrics at Jefferson Davis Hospital in Houston.

YON—Raymond B. Lyon recently formed the Lyon Capital Corp., a federal licensee under the Small Business Investment Act of 1958. The corporation, located in Palo Alto, will supply venture capital to small business.

MORGAN—Thomas Ahern Morgan has received the Air Force Commendation Medal for his work with the 1st Strategic Aerospace Division at Vandenberg Air Force Base—a position he held as a first lieutenant until April of this year. Since returned to civilian life, he has joined Lockheed in Palo Alto as research scientist. He, his wife, and two daughters are living in Sunnyvale.

RAFTERY—Michael R. Raftery, LLB '62, has become associated with the Riverside law firm of Thompson and Colgate. He and his wife have a second daughter, Kathleen Ann, born in January. She joins Kelly Lynn, 2½.

SHEARER—John J. Shearer, formerly with the Internal Revenue Service in Salinas, has joined the Peace Corps. Following training at New York University he was assigned to duty at Somali where he will instruct intermediate and secondary school students in English.

Marriages

ALSCHULER-MILLER—George Arthur Alschuler to Marion Ruth Miller, July 15 in Berkeley. They will live in Sausalito.

BAER-NAGEL — George Webster Baer to Martha Kathleen Nagel, June 16 in Oklahoma City. They will live in Cambridge, Mass., while the groom is a teaching fellow at Harvard.

LEONG-ANDERSON—Loretta K. U. Leong to Ronald W. Anderson. They will live in Honolulu.

VIOLICH-BOUCKE—John A. Violich, MBA '62, to Barbara Lee Boucke, June 23 in Palo Alto. They will live in New York City where the groom has become associated with an investment counseling firm.

WELLS-VAN HORN—John Barnet Wells to Susan Carol Van Horn, June 2 in Scarsdale, N.Y. They will live in New York City where the groom is with the Irving Trust Co. He received his MBA from Columbia last year.

WILLCUTS-TOWER—Gary D. Willcuts to Betsy Louise Tower, '59, July 14 in Phoenix, Ariz. They will live in San Francisco. The groom is an engineer at Phillips & Van Orden Co., and the bride teaches social studies at Lincoln High School.

Births

WALKER — To Mr. and Mrs. Stanton K. Walker, '57, a daughter, Margaret Muriel, May 25 in Oakland. She joins Ralph Dunn, 2. Paternal grandfather is Dr. Ralph S. Walker, '24. The father recently resumed work in the trust department of United California Bank after being recalled to active duty in the Army and serving at Ford Devans, Mass.

1958

CLEMENTS—William W. Clements received his commission as an ensign in the Coast Guard Reserve at the Officer Candidate School, Yorktown, Va., in June. He has been assigned to duty at the Eighth Coast Guard District Office, New Orleans.

DRISCOLL — Mary Driscoll has joined the copy department of N. W. Ayer & Co., Inc., in Chicago. She had previously worked for Montgomery Ward, writing newspaper ads and radio spots.

FRASER—Keith S. Fraser is a deputy District Attorney of Alameda County.

OLSON—Robert B. Olson has been named financial vice-president and a director of H & H Properties, Inc., Everett, Wash.

ROSE—Lt. Girard F. Rose has been awarded the Air Force pilot wings after completing pilot training at Moody Air Force Base, Ga.

SCHMAELZLE—John F. Schmaelzle is entering his senior year at the University of California Medical School where he has been elected president of the student body. He also is on the board of governors of the student union and the Provost's committee to interest students in the health sciences.

SPIEL(berger)—Melvin Spielberger recently had his name shortened to Mel Spiel. He is currently at the Georgia Institute of Technology where he is working on sub-millimeter wave research. His wife is the former Sally Snead, '60. They have a daughter, Julie Ann.

TRUMBULL—John A. Trumbull received his LLB from Harvard Law School in June. Additionally, he obtained a "Mrs."—the former Ann Sittler, an assistant director of fashion publicity for Filen's in Boston. They are living in San Diego where they hope to establish permanent residence.

WHALEY—Richard I. Whaley, formerly of the American Culvert Co., San Jose office, has joined the staff of Charles S. McCandless & Co., Menlo Park. The firm is engaged in hydraulic, sanitary, and municipal engineering. Dick and his wife Joan and Justine, 5, Alexis, 3, and Cara, nine months, are living in San Jose.

ZUG—Richard C. Zug received his medical degree from Cornell University Medical College in June and is an intern in surgery at the University of Virginia Hospital, Charlottesville, Va.

Marriages

HOFF-SHANKS—Dr. Julian T. Hoff to Helen Diane Shanks, June 3 in Brookhaven, L.I., N.Y. They will live in New York City where the groom will begin his internship in surgery.

ROSS B. THOMPSON
See Class of 1953

JOHN C. HORNING JR.
See Class of 1955

He received his medical degree from Cornell.

JEWETT-HANSELL — Dr. Paul Hayman Jewett, MD '62, to Helen Elizabeth Hansell, '62, June 16 in the Stanford Memorial Church. They will live in Boston where the groom will be an intern at Children's Hospital.

MUNHALL, Virginia Marie — See Holmes-Munhall, Engineering.

OLSON-LEWIS — Dr. N. Kermit Olson to Antonia Lewis, '59, recently in Oak Park, Ill. They will live in Dallas, Tex., where the groom is an intern at Parkland Memorial Hospital.

PETREE-BROOKS—Donald Keith Petree to Virginia Terrill Brooks, '61, June 23 in the Stanford Memorial Church. They will live in Davis, Calif.

POPE-BRANDL—Dr. William Wade Pope, MD '62, to Frances Marian Brandl, recently in the Panama Canal Zone. The groom is an intern at Gorgas Hospital in the Canal Zone.

SPIVOCK-USIM—Aline Spivock to William Usim. They will live in Sunnyvale.

VIGNA-HIGH—Anthony F. Vigna, AM '60, to Dolores A. High, AM '59, June 30 in Santa Barbara. The groom is with the East Side District in San Jose as a history teacher and varsity basketball coach.

Births

BELL—To Mr. and Mrs. Timothy A. Bell, '58 (Martha March, '58), a son, Peter Hanson, Dec. 13. The father is a graduate student at the University of Oregon.

BERRY—To Mr. and Mrs. Phillip S. Berry, '58, LLB '61 (Helen Harris, '62), a son, David Jeffress. The father is with the law firm of Berry, Davis, Channell, and McNamara in Oakland.

DOTY—To Mr. and Mrs. Dale Scott Doty, '58 (Marjorie Jean Waite, '60), a son, David Milton, May 5 in Mountain View. He joins a sister, Kelly, 3½. The father teaches at Grant Elementary School.

HANCOCK — To Lt. and Mrs. Charles C. Hancock Jr., '58 (Donna Dellwig, '58), a second son, Stephen Edward, July 3. The father is currently stationed at Dyess Air Force Base, Abilene, Tex.

HINAGA—To Mr. and Mrs. Masataro Hinaga, '58, a son, Scott T., March 6 in Palo Alto.

TOMLINSON — To Mr. and Mrs. Allan J. Tomlinson Jr. (Helen Nebeker, '58), a son, John, May 18.

1959

CAPLE — John S. Caple, who received his MBA from Harvard in June, has joined the advertising department of Procter & Gamble in Cincinnati. He has been assigned to the group responsible for the consumer marketing of Joy.

DALGLIESH — Lt. (jg) William Dalgliesh has recently been relieved of his duty aboard the USS Bausell and will be teaching NROTC at the University of Utah for the next two years.

HARRIS—Godfrey Harris recently was promoted to the rank of first lieutenant while serving as an intelligence officer at Fort Hancock, N.J.

TAYLOR—Edwin J. Taylor III spent two weeks of active training at Fort Eustis, Va., in June. A lieutenant in the Army Reserve, he is regularly assigned as a harbor craft officer at the Transportation School at Fort Snelling, Minn. He is with Sperry Rand Corp. in New York.

WILHELMY—John K. Wilhelmy, a senior at Baylor University College of Medicine, has been awarded a grant from the Medical Research Foundation of Texas as prime investigator of certain medical projects. His award was more than $650.

Marriages

BYRD-LOOMIS—Beverly Joan Byrd to Robert Milton Loomis, recently at Zephyr Cove, Nev. They will live in San Francisco where the groom will continue graduate studies at San Francisco State College.

GOLDBERG-STONE—Henry I. Goldberg to Janet Elaine Stone in June in Los Angeles. They will live in San Francisco where the groom is attending the University of California Medical School.

LEWIS, Antonia—See Olson-Lewis, Class of 1958.

SARGEANT, Sandra — See Moore-Sargeant, Class of 1960.

Otto Feucht
See Class of 1953

Girard F. Rose
See Class of 1958

SCHRAMM, Mary Barbara — See Coberly-Schramm, Class of 1952.

TOWER, Betsy Louise—See Willcuts-Tower, Class of 1957.

UKROPINA-BRANDENBURG—Jim Ukropina to Lois Brandenburg, '62, June 16 in the Stanford Memorial Church. The groom has been on active duty with the Air National Guard at Van Nuys, Calif., but was to be released in time to enter the University of Southern California Law School this fall.

Births

RESNIK—To Mr. and Mrs. Stephen Devron Resnik, '59, a daughter, Rebecca Lynne, Oct. 18, 1961. The father has opened a walnut shelling plant in Somis, Calif.

RUCKLE—To Mr. and Mrs. John Timothy Ruckle (Sharon Speer, '59), a son, John Timothy Jr., March 13 in Leavenworth, Wash. Both parents recently received degrees from Georgetown University.

SCHOLZ — To Mr. and Mrs. David Scholz (Charlotte Maytham, '59), a daughter, Diane Elizabeth, April 30. The father is with IBM's Service Bureau Corp. in San Jose. They live in Sunnyvale.

SEELEY—To Mr. and Mrs. James Seeley, '59 (Jo Browning, '59), a daughter, Julie Ann, April 29 in Washington, D.C. The father is working in the Department of Commerce.

1960

CHESTER—George A. Chester Jr. received his commission as a second lieutenant in the Army Transportation Corps in August.

PHILLIPS—Lt. William W. Phillips has entered Air Force navigator training at James Connally Air Force Base, Tex.

THRONDSON—Edward W. Throndson received his MBA from Harvard in June and has moved to Santa Rosa. He has accepted a position with Empire Gas Service, Inc. While in Massachusetts, his wife, the former Marjorie Waite, '60, taught in the Quincy school system.

Marriages

ADAMS-AUER — Rodney H. Adams, MBA '62, to Norma Auer, '61, May 26. They will live in San Francisco.

BING-JAHN—D. Gerald (Gerry) Bing Jr. Nancy Louise Jahn, July 8 in Ukiah. groom's parents are D. Gerald Bing, '31, Teddy Klepinger Wilcox, '34. The gr recently completed his Marine Air Corps serve training and is engaged in the he construction business in Reno.

GAST-BERGER—Charles Edwin Gast Jr. Carol Suzanne Berger, '62, July 28 in Stanford Memorial Church. They will live San Francisco where the groom is a comm cations processing consultant with Ba Barton, Durstine, and Osborne.

GREGG-DICKSON — Stephen Lamp Gregg to Marilyn Ruth Dickson, '61, rece in Chinook, Mont. They will live in P Alto while the groom continues his med studies at Stanford.

MOORE-SARGEANT — Stephen Alb Moore to Sandra Sargeant, '59, June 23 San Francisco. They will live in Atlanta, while the groom continues his medical stu at Emory University.

MORRISON-CARROLL — John Kelly M rison III to Nancy Louise Carroll, recentl Woodland, Calif. They will live in Palo A

NEHER-BECKER — Clark Dumont Ne AM '62, to Arlene Mary Becker, '61, Ju in Palo Alto. They will live in Monterey w the groom attends the Army Langu School.

PUTNAM, Susan—See Christiansen-Putn Class of 1956.

SMITH-VON DESSONNECK—Douglas Smith to Karen von Dessonneck, '61, June in the Stanford Memorial Church. They live in Urbana, Ill., while both continue t graduate studies at the University of Illin

TENNICAN-WOLFE — Michael Leon Tennican to Catherine Scott Wolfe, June 23 in Pacific Palisades. They will in Palo Alto.

1961

BRANNON — Lt. Richard M. Brannon cently completed the officer orientation co at the Artillery and Missile Center, Fort Okla.

HALBERT—Ted L. Halbert, MS '62, and wife are living in Cincinnati, Ohio, where is a commissioned officer with the U.S. Pu Health Service. An assistant sanitary en neer, he is working with the metropoli planning division at the Taft Sanitary E gineering Center.

KARNS—Ensign Norman M. Karns Jr., a mer member of the Stanford tennis team, cently won the singles and doubles of the 1 Naval District Tennis Championships Monterey, the singles and doubles of the cific Coast All-Navy Tennis Championsh in San Diego, and the doubles of the All-Na Tennis Championships in Newport, R.I.

MARKHAM—James Markham, who is stu ing for his master of science in algology (m rine botany) at the University of Washing has joined Phi Sigma, a national biologi science honorary. He has a National Scien Foundation fellowship to study at the scho marine station at Friday Harbor.

MATHIAS—Edward M. Mathias received commission as an ensign in the Coast Gua Reserve at the Officer Candidate Scho Yorktown, Va., in June. He has been signed to duty aboard the Coast Guard Cu Nettle, San Francisco.

STEWART — John Todd Stewart, who received his AM from the Fletcher School of Law and Diplomacy in June, has been appointed a career Foreign Service Officer. He currently is attending the Foreign Service Institute in Arlington, Va., in preparation for overseas assignment.

Marriages

ADAMS-KRAGEN — Judith Adams to Kenneth A. Kragen. The groom is manager of the singing group, The Limeliters. They have just returned from a two-month trip to the Orient and South Pacific.

AUER, Norma — See Adams-Auer, Class of 1960.

BECKER, Arleen Mary—See Neher-Becker, Class of 1960.

BROOKS, Virginia Terrill — See Petree-Brooks, Class of 1958.

DICKSON, Marilyn Ruth—See Gregg-Dickson, Class of 1960.

HOTH, Marilyn Kay—See Gulick-Hoth, Class of 1956.

McAFEE-ROOT—Ward Merner McAfee, AM '62, to Lois Beth Root, '62, June 18 in the Stanford Memorial Church. The reception followed at Bowman Alumni House. They will live at Stanford while the groom continues studies for his doctorate.

MICKLEY-ROTHWELL — Richard Barr Mickley to Martha Anne Rothwell, '62, July 7 in the Stanford Memorial Church. They will live in Woodside while the groom continues his studies in the Stanford Graduate School of Business.

MOREHOUSE-DE VOL — Charles James Morehouse and Linda Julie De Vol, both Class of 1961, were married June 16.

NIMMO, Patricia Margaret — See McClain-Nimmo, Class of 1962.

POST, Victoria Valerie—See Sylvester-Post, Business.

RADFORD-BAXTER—Ensign Francis Shelley Radford to Marilou Baxter, June 15 in Newport, R.I.

UMPHREY-LOWN—James McCord Umphrey to Suzanne Lorraine Lown, July 8 in Palo Alto. They will live in Sunnyvale. The groom is an electrical engineer with Hewlett-Packard.

VON DESSONNECK, Karen—See Smith-von Dessonneck, Class of 1960.

WOLFE, Catherine Scott — See Tennican-Wolfe, Class of 1960.

Births

WESTERMAN — To Mr. and Mrs. George Westerman, '61 (Gayl Shaw, '61), a daughter, Kara Kristin, May 10. The father will enter medical school in Philadelphia this fall.

1962

GODFREY—Carol Godfrey is in Boston as assistant to the art editor at Little, Brown and Co., book publishers.

LOVELACE—Robert William Lovelace has joined the Tyler, Tex., district office of Pan American Petroleum Corp. as a junior geophysicist.

SWEENEY—Martha Sweeney has received a Coro Foundation Internship in Public Affairs.

THORKELSON — Howard Thorkelson is a first-year student at Yale Law School. He spent several months following graduation travelling and studying in Europe.

Marriages

BERGER, Carol Suzanne—See Gast-Berger, Class of 1960.

BROWN, Barbara Lynn—See Storey-Brown, Medicine.

BRANDENBURG, Lois—See Ukropina-Brandenburg, Class of 1959.

CONNER-EDMUNDS—Thomas L. Conner and Carolyn Yvonne Edmunds, both Class of 1962, were married June 18 in Menlo Park. They will live in Menlo Park while the groom is doing graduate work in sociology at Stanford.

FRASER-KING — David Gray Fraser and Louise Sands King, both Class of 1962, were married June 18 in the Stanford Memorial Church. The reception followed at Bowman Alumni House. They will live in Ithaca, N.Y.

HANSELL, Helen Elizabeth — See Jewett-Hansell, Class of 1958.

McCLAIN-NIMMO — Thomas Judson Ashmead McClain to Patricia Margaret Nimmo, '61, recently in Walnut Creek. They will live in Boston while the groom attends Harvard Business School.

MAZONAS-SIEMENS — Diane Mazonas to Peter W. Siemens, in July in Menlo Park. They will live in Mountain View. The groom is an engineer with United Technology Corp. in Sunnyvale.

NORGAARD-LONG — Todd Hunter Norgaard to Linda Long, recently in Napa. They will live in Palo Alto while the groom continues his studies at Stanford.

ROBERTSON-WHEELER — Lt. Munro V. Robertson and Mary Ann Wheeler, both Class of 1962, were married June 28 in the Stanford Memorial Church. They will live at Quantico, Va., where the groom is stationed with the Marines.

ROOT, Lois Beth—See McAfee-Root, Class of 1961.

ROTHWELL, Martha Anne—See Mickley-Rothwell, Class of 1961.

RYTAND-HURFF—David Henry Rytand to Sally Hurff, in July in the Stanford Memorial Church. They will live in Palo Alto while the groom continues graduate studies at Stanford.

WARD-KEY — Mary Carol Ward to Jerry Lynn Key, in June in Palo Alto. They will live at Cashmere, Wash., while the groom attends the University of Washington School of Medicine.

1963

Marriages

CAMERON-DeVOTO—Allan Ronald Cameron to Judith DeVoto, June 16 in the Stanford Memorial Church.

SMITH-MORRIS—Susan Ann Smith to Mark Martin Morris II, June 30 in San Francisco. They will live in Los Angeles.

Business

BARCHI—Michael E. Barchi, MBA '56, has been named administrator, materiel procurement, of Hughes Aircraft Co., Los Angeles. He will be responsible for the procurement of weapons and fire control systems for the U.S. government and foreign nations. He earlier had been assistant controller for Litton Industries.

MONA STEIN MOFFATT
See Education

BOSTWICK—Col. George E. Bostwick, MBA '50, has been named head of the Air Force Logistics Command's Air Procurement Region, Europe, at Chateauroux Air Station, France.

BROWN—M. Wendell Brown, MBA '55, field underwriter with Mutual of New York's Palo Alto agency, has qualified for the company's highest annual sales-honor group, the President's Council. He ranked first in MONY's 11-state western sales region and seventh nationally among the company's field underwriters.

BUSHNELL—J. Merrill Bushnell, MBA '49, has been appointed assistant general manager and assistant secretary of Pacific States Cast Iron Pipe Co. He has been with the firm since 1949 and most recently was senior industrial engineer and purchasing agent. He also teaches a course in industrial management at Brigham Young University. He lives in Provo, Utah, with his wife and two sons.

FILLMORE—Capt. Leland R. Fillmore, MBA '55, has been awarded a "1000-hour pin" for logging 1000 hours flying time in C-130 Hercules aircraft. An Air Force pilot, he is with the 815th Troop Carrier Squadron at Tachikawa Air Base in Japan.

KORENAGA—George J. Korenaga, Gr. '30, has been named head of a new Tokyo office of the Bank of Nova Scotia. He earlier had been deputy manager of the foreign department of the Sanwa Bank, Ltd., in Japan.

McCOY—Charles W. McCoy, MBA '54, is president of Louisiana National Bank, Baton Rouge.

MANDEL — Stephen F. Mandel, MBA '54, has been appointed vice-president, sales, with supervision over all sales, foreign and domestic, of All-State Welding Alloys Co., White Plains, N.Y. He also will have charge of sales for the subsidiary All-State Custom Manufacturing Co. He joined the firm in 1956.

MAPES—Robert Duane Mapes, MBA '62, has joined Aerojet-General Corp. in Azusa as a manufacturing engineer.

MUCHA—Robert H. Mucha, MBA '57, has been promoted to lieutenant colonel in the Air Force. He is a missile maintenance officer at Brookley Air Force Base, Ala.

JOHN H. HARRIMAN
See Law

Marriages

SYLVESTER-POST — Norman Neuberger Sylvester, MBA '62, to Victoria Valerie Post, '61, July 15 in the Stanford Memorial Church. They will live in New York City.

Births

FARRIN — To Mr. and Mrs. James Smith Farrin, MBA '60 (Marianne Magers, '60), a son, James Scott, June 14 in New York City.

Earth Sciences

Marriages

BURCH-PUSHING—Stephen Howell Burch, MS '62, to Carole Ann Pushing, AM '62, June 23 in Olivia, Minn. They will live at Stanford while both continue their graduate studies. The groom is the recipient of the Ernest Gale Martin Honors Memorial Scholarship.

Education

ALVORD—Maj. Ray W. Alvord, AM '55, was honored as a distinguished graduate at the U.S. Air Force Command and Staff College, Air University, Maxwell Air Force Base, Ala., in June. He also received special recognition by being selected as a member of the Air Force Speakers Bureau. He has been reassigned to Lackland Air Force Base, Tex.

MILSTEIN—Dr. Abe Milstein, EdD '60, reports that a son, Jeffrey, enters the Stanford School of Medicine this fall after graduating from Columbia in June.

MOFFATT — Mona Stein Moffatt, AM '49, has written *How to Organize a Music Department for a Church,* which is being published by the Exposition Press, New York. She is a teacher in the Oakland schools and the first music director elected in a Christian Methodist Episcopal Church.

PETERSEN—Orval L. Petersen, EdSpec '58, is science-mathematics coordinator at Montclair High School in Southern California.

Marriages

HICKEL-HANSON—Ruth Alice Hickel, Gr. '61–, to John Dennis Hanson, recently in Redwood City. They will live in San Francisco.

HIGH, Dolores A.—See Vigna-High, Class of 1958.

TAYLOR, Margaret Rose—See Gunton-Taylor, Humanities-Sciences.

Engineering

BIALKOWSKI — Leon Bialkowski, MS '58, recently became a partner in the firm of J. F. Camellerie, consulting structural engineer specializing in the design of concrete facilities constructed by the "sliding form" method. The firm is located in Huntington, N.Y.

GEORGE—Donald A. George, MS '56, former assistant professor of engineering at the University of New Brunswick, has been named assistant professor of engineering at Carleton University, Ontario.

Marriages

AMSDEN-SORENSEN — Larry Avery Amsden, Gr. '60–, to Barbara Joan Sorensen, recently in Palo Alto. The groom is with Hewlett-Packard in Palo Alto and working for his master's degree in electrical engineering at Stanford.

BRODER-LEVINE—Alan Broder, MS '51, to Shirley J. Levine, Jan. 5 in Miami. They live in Albertson, L.I., N.Y. The groom is a senior engineer with Sperry Gyroscope Co.

DeVOTO-MARPLE—Robert H. DeVoto, Gr. '61–, to Katherine Marple, recently in Portola Valley. The groom is with the Bechtel Corp.

HOLMES-MUNHALL—Charles H. Holmes, Gr. '58–, to Virginia Marie Munhall, '58, June 17 in Palo Alto. They will live in Auburn, Ala., where the groom will be associate professor of electrical engineering at Auburn University.

MANNING-ADAMSKI — Larry Alvin Manning, MS '62, to Judith M. Adamski, July 29 in Mountain View. They will live in Mountain View. The groom is with Lockheed in Palo Alto.

Births

ADAMS—To Dr. and Mrs. James L. Adams, PhD '62 (Gretchen Scholtz, '57, AM '58), a son, Robert Lowell, June 9. The father is a senior development engineer in the spacecraft development section of the Jet Propulsion Laboratory in Pasadena.

PRICE—To Mr. and Mrs. Peter Price, MS '52, Engr. '54 (Jeanie King, '54), a son, Peter Douglas, May 29 in Pasadena. He joins Andrew Alan, 2. The father is a consulting engineer.

SAM CONTI
See Law

Humanities-Sciences

ARNOLD—Dr. James T. Arnold, PhD has been appointed manager of a newly-ated special products group in the instrun division of Varian Associates, Palo Alto. authority in the field of nuclear magn resonance, he has been with Varian 1956.

WRIGHT—Harrison Allen Wright, AM is teaching in the Ashland, Ore., High Sch

Marriages

GUNTON-TAYLOR — James Douglas G ton, Gr. '61–, to Margaret Rose Taylor, '60–, recently in the Stanford Mem Church. They will live at Stanford while groom continues his graduate studies.

NELSON-THACKER — Edwin Donald son, Gr. '61–, to JoAnn Dagmar Thac June 24 in San Francisco. They will liv Palo Alto while the groom completes for his PhD at Stanford and is associated Varian Associates.

PUSHING, Carole Ann—See Burch-Push Earth Sciences.

SHELLENBERGER-HOWELLS — J Shellenberger Jr., Gr. '61–, to Carol Howells, recently in San Francisco. T will live in Palo Alto.

Law

CONTI — Sam Conti, LLB '48, Conc Calif., attorney, is extremely active in affairs. He has recently been re-elected pr dent of the Concord Area Chamber of C merce and is serving as chairman of the tra Costa County Republican Central C mittee. In addition to his practice with firm of McBride, Call, and Conti, he is de City Attorney of Concord. He and his have three children.

HARRIMAN—John H. Harriman, LLB has been appointed assistant secretary of board of directors for Security First Nati Bank, Los Angeles. He joined the ban 1955 following six years of practice wit Los Angeles law firm. He also serves as president and assistant secretary in the o of the bank's corporate secretary.

HOUSSELS—John K. Houssels Jr., LLB has been elected president of the Hotel Tr cana in Las Vegas. He had been gen manager of the El Cortez and Showboat tels for the past three years and a membe the Tropicana board of directors. A resi of Las Vegas for 33 years, he practiced before entering the hotel business and served in the Nevada Legislature.

Medicine

KRUEGER—Ethel Krueger, Gr. '47–49, joined the staff of the Elyria, Ohio, Cere Palsy Society as a physical therapist.

Marriages

STOREY-BROWN — Stephen Dean Sto Gr. '60–, to Barbara Lynn Brown, '62, June in the Stanford Memorial Church. They live at Stanford while the groom contin his medical studies.

Births

NEILL—To Mr. and Mrs. Walter R. (Karleen Cooper, AM '46, MD '50), a dau ter, Elizabeth Wadsworth, Jan. 20, 1961. mother has been appointed an instructor the department of medicine at the Uni sity of Mississippi School of Medicine.

In Memoriam

Faculty–Staff

LOOMFIELD—Dr. Arthur L. Bloomfield, rofessor of medicine, emeritus, died July 5 San Francisco of a heart attack. He was 74. member of the faculty for 28 years, he was distinguished diagnostician and teacher. ven years ago, at the time he retired, a ecial issue of the *Stanford Medical Bulletin* as dedicated to him. A native of Maryland, received both undergraduate and medical grees from Johns Hopkins. He taught at at school before coming to Stanford in 1926. he author of countless scientific articles, he as a past president of the California Acadmy of Medicine and the American Society r Clinical Investigation. During World War he was on the Committee on Medicine of e National Research Council. Following s retirement a medical scholarship was ven in his honor by Louis Lurie. Survivors clude his widow and three children, Julia loomfield, '42, Ann Bloomfield Saltonstall, 5, and Arthur J. Bloomfield, '51.

ANNING—John Bennet Canning, Gr. '21, rofessor of economics and associate, Food esearch Institute, emeritus, died July 4 in lo Alto after a long illness. He was 77. . Canning was a graduate of the University Chicago where he played football and was track star. He joined the Stanford faculty 1919 and resigned in 1946. For the next ree years he was deputy chief of the Food nd Agriculture Branch of the U.S. Military overnment in Germany. He retired from at post because of ill health. Survivors inude his widow and two sons, John, '39, and homas, '43, MS '47.

ISH—John Charles Lounsbury Fish, a mem- er of the engineering faculty from 1893 un- il his retirement in 1935, died June 15 in Los Angeles. He was 92. A member of the Cornell Class of 1892, Professor Fish came to Stanford in the University's third year. He was a pioneer in the field of engineering economics and his text, *Engineering Economics,* was long a leading work in the field. It won him the Fuertes Gold Medal from his alma mater. He held many professional affiliations and in 1945 was named an honorary member of the Stanford Class of 1895. At the time of his retirement he was executive head of the civil engineering department. He continued to live in Palo Alto until the death of his wife in 1951. Since that time he had resided with a daughter Frances, and son-in-law Garth Young '21, in Los Angeles. He also leaves a son, Lounsbury, '21, and four grandchildren.

1895

KRAUSS—Frederick George Krauss died June 5 in Honolulu after a long illness. He was 92. Known as the "father of diversified agriculture in Hawaii," he moved to the Islands in 1901 to join the faculty of the Kamehameha Schools. He helped to organize the University of Hawaii and became its professor of agriculture in 1910. Four years later he established New Era Homestead, a 50-acre farm at Haiku, which eventually became an agricultural experimental headquarters. He later returned to the University as professor of agronomy and genetics and in 1930 became head of the school's agricultural extension service. He retired in 1936. He received many honors for his work, including an honorary doctor of science degree from the University of Hawaii. Survivors include two daughters and a son.

REEVES—William Henry Reeves Jr., Engr. '96, died April 23. He was 90. A retired engineer, he was at one time assistant engineer for the Board of Public Works in Los Angeles. He was the brother of the late Minnie Hannah Reeves, '95, and Jessie Muriel Reeves Boyd, '97.

1900

CLARK—Mary Lucile Caldwell Clark, AM '02, died Dec. 18.

DALY—Evangeline Wilson Daly died March 28.

1901

GILLESPIE—Claude Bailey Gillespie died June 22 in Palo Alto after a lengthy illness. He was 85. Beginning his law career in Nevada, he returned to Palo Alto in 1903 and was associated with the firm of Metson, Drew & McKinsey for 27 years prior to his retirement. He was a member of Kappa Sigma fraternity.

1902

RUTH—Anna Frances Ruth died Feb. 8 in Los Angeles.

SCOBEY — Frederick Charles Scobey died July 19 in Berkeley after a long illness. He was 82. A retired construction hydraulic engineer, he was an honorary life member of the American Society of Civil Engineers. He was a past vice-president and current director of his engineering society. He had lived in Berkeley for some 30 years. Survivors include his widow and a son.

1904

KLAMT — Augustus Joseph Klamt died in June in Southern California. Survivors include his widow, three daughters, and a brother.

LEWIS—Howard Milton Lewis, JD '06, died Dec. 16 in Bozeman, Mont., of pneumonia. Survivors include his widow, the former Mildred Pitkin Chapman, '03.

PALEN — Lt. Col. Matthew Addison Palen died April 17.

TOLL—Jane Louise Bean Toll died March 22 in Gardena, Calif. Survivors include two daughters.

1905

COONS—James Watt Coons died April 21 in Berkeley. He was 82. He joined the California Gas and Electric Co. (later to merge with Pacific Gas and Electric) in San Jose in 1905. He transferred to Eureka from Woodland in 1932 as a division manager and held that position until his retirement in 1944. He was a native of Illinois. Survivors include his widow and several sons.

WINTER—Frank Cook Winter died May 2 in Beverly Hills. He was 80. He had long been president of Winter Mortgage Co. and also was the firm's board chairman. Survivors include his widow, a daughter, and a sister.

1906

ALLAN—Elsie Dunbar Allan, RN '06, died July 26 in San Francisco. Survivors include a niece.

EDWARDS—Paul Carroll Edwards, emeritus member and former president of the Stanford Board of Trustees, died July 23 in Los Altos Hills of an apparent heart attack. He was 80. A distinguished newspaperman, he was with the Scripps-Howard chain for some 50 years — from 1932 to 1956 as associate editor of the *San Francisco News.* He began his writing career while a high school student in his native Indiana and while at Stanford was a campus correspondent for the *San Francisco Bulletin.* Joining the *News* after leaving Stanford, he rose to the position of city editor. In 1910 he went to Dallas as editor of the *Dispatch.* From 1919 to 1925 he was editor of the Scripps-Howard southwestern and California papers and later he edited the *San Diego Sun.* His Stanford activities were numerous. While a student he edited the *Sequoia* and was a member of the Quadrangle Club, the English Club, and Delta Upsilon fraternity. He was a member of the board of governors of Stanford Associates from 1937 to 1945 and president from 1941 to 1944. In 1943 he was named to the Board of Trustees, and from 1948 to 1953 served as president. He was a past president of the Commonwealth Club of San Francisco. Survivors include his widow, the former Georgine Lyman, '07; a son, Paul Jr., '37; a daughter, Carroll Emma Edwards Ammen, '42; and six grandchildren, including Paul III, '65.

MIRRIELEES — Edith Ronald Mirrielees, professor of English, emeritus, died June 3 in Palo Alto of a cerebral hemorrhage. She was 83. One of Stanford's most widely known teachers, she served on the faculty from 1910 until her retirement in 1944. She also was a distinguished short story writer whose work appeared in magazines such as *Atlantic Monthly* and the *Saturday Review.* She was founder and first editor, from 1947 to 1951, of the *Pacific Spectator,* a quarterly published by the Stanford University Press. She had edited two anthologies of short stories and two textbooks, *Writing the Short Story* and *The Story Writer.* In 1959 her book *Stanford, the Story of the University* was published. A week before her death her most recent editing project, a book of Stanford alumni reminiscences called *Stanford Mosaic,* was delivered to the printer. During her undergraduate days Miss Mirrielees was editor of *Sequoia* literary magazine and was a member of the *Quad* staff. She was one of four charter members of Cap and Gown Society. She had come to Stanford from her native Montana, where she taught for several years before commenc-

ing her college education. Although she earlier had no advance degrees, she was awarded an honorary doctor of letters by Mills College in 1961. A sister, Lucia, who had been a professor of English at the University of Montana, preceded her in death.

1907

EDWARDS – Leroy Mallory Edwards died July 15 in Beverly Hills. He was 77. A native of Santa Ana, he returned to Southern California following graduation from Stanford. For many years he was general counsel for Southern Counties Gas Co. and counsel for Southern California Gas Co., of which he remained a director. He was prominent in civic affairs and was a former president of the Los Angeles Chamber of Commerce. He received an honorary doctor of business administration from the University of Southern California in 1954 while serving as adjunct professor of business administration. At Stanford he was a member of Sigma Nu fraternity and Block S. He was a member of Stanford Associates. Survivors include his widow and a daughter.

NISSEN—Anna Lavonia Almind Nissen died May 17. Survivors include her husband, Roger C. Nissen, '05, and a son.

REYBURN—Emory Everett Reyburn died May 20 in Clovis, Calif., after a month's illness. He was 81. A native of Stanislaus County, he spent most of his life in the San Joaquin Valley. After leaving Stanford he joined the First National Bank in Fresno and later the First State Bank of Clovis. From 1935 until his retirement in 1955 he was a hearing officer with the State Public Utilities Commission. Reyburn served on the Clovis City Council in the 1920s and again in the 1950s. Survivors include his son, four sisters, and five brothers, including Glenn, '10.

1908

McWETHY—Leroy McWethy died July 20 in Carmel. He was 77. Survivors include his widow and two sons.

SCOTT—Bert Carlisle Scott died July 21 following a short illness. Survivors include two sons and a daughter.

1909

CRAWFORD—David Paul (Babe) Crawford died Nov. 10 in Ojai, Calif. He entered the oil business in Southern California following his graduation and later established a drilling contractor firm in Texas and Oklahoma. Returning to California, he was an engineer in Long Beach before retiring in 1955. While at Stanford he was a prominent athlete, playing on the football team for four years. He also was a hammer thrower and shot putter on the track team. Survivors include three daughters and two grandchildren.

1910

BOBO—Lonnie Adelbert Bobo died Dec. 1 in San Gabriel. Survivors include his widow.

1913

BURNETT – Guadalupe Brambila Burnett, RN '13, died April 20. Survivors include a brother.

1915

DUNLAP—Willard Everett (Steve) Dunlap died June 25. He was 71. Vice-president and director of the Ojai Oil Co. at the time of his death, he had been in the oil industry in California for more than 45 years. He had been associated with Union Oil Co. and General Petroleum and was a former vice-president and director of Richfield Oil Co. of California. He was active in a number of professional and civic groups. Survivors include his widow, a son, and two grandchildren.

1917

GHRIST—Dr. Orrie Edward Ghrist, MD '21, died Aug. 5. An eye, ear, nose, and throat specialist, he had practiced in Glendale for many years. At Stanford he was a member of Beta Theta Pi. Survivors include his widow and two sons.

GREEN—Charles Keith Green died July 18. He had for many years been associated with the U.S. Coast and Geodetic Survey.

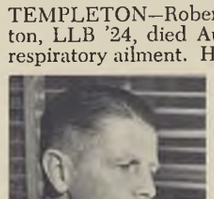
GROFF—Helen Godfrey Spalding Groff died May 3 in Arcadia following a long illness. She was 75. A native of Sierra Madre, she was a lifelong resident of the San Gabriel Valley. She was a member of the California Historical Society and a number of women's groups. At Stanford she joined Kappa Alpha Theta.

HEWS—Hayden Lewis Hews died June 12. He was an attorney with the Riverside firm of Hews, Hews, and Brown. Survivors include his widow and a son, John, '50.

1918

POWER—Ruth Angele Visel Power died May 23 in Vancouver, B.C., while en route to Europe. A resident of Southern California for many years, she had been active in Stanford groups, including the Buck Club. Her sorority was Kappa Alpha Theta. Survivors include her husband, Edward James Power, and a son, James Visel Power, MBA '48.

TEMPLETON—Robert L. (Dink) Templeton, LLB '24, died Aug. 7 in Palo Alto of a respiratory ailment. He was 65. One of Stanford's best known athletic figures, he was a star athlete as a student and later track and field coach. He excelled in American and rugby football and in track was a high jumper and broad jumper. He took fourth in the broad jump at the 1920 Olympic Games. He was track coach for 19 seasons and during this period Stanford won 77 percent of the dual meets and held the national track title three times. Many Stanford track and field men broke world marks under his tutorage. He suffered from arthritis during most of his adult life and when ill health forced his retirement from active coaching he became a noted sportscaster in San Francisco. He also did a great deal of writing in the field. Since 1959 he had been an assistant to Floyd Lowe, Palo Alto realtor, as a state inheritance tax appraiser. Survivors include his widow, Catherine Williams Templeton, '19, a credentials supervisor at Stanford; two daughters; and five brothers, including Ruric, '15, Bruce, '21, Knight, 28, and John, '18.



1920

BROWN—Charles Milton Brown Jr. died July 27 in Redlands, Calif., after an illness of six months. He was 64. A lifelong resident of Redlands, he was a prominent citrus grower. He was active in civic and fraternal groups. Survivors include his widow, the former Mary Muir Jamison, '23, two daughters, and five grandchildren.

DUNCAN—Robert Fyfe Mein Duncan, May 14 in Pebble Beach on his 65th birth... A native of Alaska, he remained in the ... Area after leaving Stanford. From 192... 1934 he was an engineer with the Ward... gineering Co. and Calaveras Cement C... San Francisco. He also was affiliated w... stock brokerage firm in the area before m... to Benbow, Humboldt County, in 1938. ... vivors include his widow, the former Fr... Merrill, '23; two sons; and a sister, Flora ... can Clark, '20.

WHITTELSEY – Stuart Gordon Whitt... Sr. died June 23 in Livermore follow... long illness. He was 65. For many yea... headed the San Francisco investment sec... firm of S. G. Whittelsey Co. He was acti... civic and professional groups. Survivor... clude his widow and a son, Stuart Jr., '5...

1921

BYAM—Wallace Merle Byam (Davis) ... July 22 in Los Angeles. He was 64. He ... founder and emeritus chairman of the b... of Airstream, Inc., a travel trailer manufa... ing company with factories in Santa ... Springs and Jackson Center, Ohio. He ... best known for personally leading large ... er caravans through Canada, Mexico, C... America, Europe, and Africa. He worke... a Los Angeles newspaperman, advert... copywriter, and magazine publisher be... building his first trailer in 1932. Surv... include his widow and a stepson.

1922

HAMILTON – Harold Pierpont Ham... died Jan. 25 in Los Angeles.

1923

ALVORD—Benjamin Alvord Jr. died Jul... in Oakland following a month's illness. ... was 64. A native of Kansas, he had live... the Bay Area for many years. At the tim... his death he was a traffic engineer for ... Pacific Telephone Co. Survivors includ... widow, a daughter, and a sister.

CHAMBERLIN—Dr. Joseph Conrad C... berlin, AM '24, PhD '29, died July 1... Hillsboro, Ore., after a lengthy illness. ... was 63. An entomologist with the agricul... research services at the U.S. Departme... Agriculture in Portland since 1939, he ... resigned his post last year because of fa... health. He began his work with the De... ment of Agriculture after receiving his ... Earlier this year he was elected to the Or... Academy of Science and was presented ... a citation at the group's annual meeting. ... had authored many professional papers. ... viving are his widow, five children, two b... ers, and a sister.

LONGFELLOW—Henry Wadsworth L... fellow died May 21 of arteriosclerosis.

LYNN—Harold Fredric Lynn, AM '25, ... May 12 in Wickenburg, Ariz. He was ... Survivors include his widow, the for... Sarah Woerner, '23.

SARGENT—Aaron More Sargent died M... in Philadelphia of a heart attack. The ... Francisco attorney, who resided in Palo A... was attending a convention of the Son... the American Revolution at the time of ... death. He was 61. A native of San Franci... he was the grandson of Aaron A. Sargent, ... served as a member of the U.S. Senate ... California. Survivors include his widow, ... sons, and a daughter.

1924

ARTHUR—James Leland Arthur died June 28 in Camarillo of lung cancer. He was 64. A native of Fresno, he had long lived in Ventura County. He joined Shell Oil Co. in 1926 and was assigned to Ventura in 1936. He became head of the petroleum engineering department in that city and from 1955 to 1959 served in the Los Angeles offices of Shell. He returned to Ventura in 1959 and retired last year. While at Stanford he was a top athlete, participating in track and field and football. At one time he held the world's record in the discus throw. Survivors include his widow and a daughter, Jeanne, '60.

SMITH—Raymond Warner Smith died July 9 in Sawtelle, Calif., after a short illness. He was 69. A native of Indiana, he had lived in California for many years. He was executive secretary of the Community Chest in San Francisco from 1928 to 1936. He later became financial officer of the organization which planned and staged the San Francisco Bay Exposition. Moving to Los Angeles, he became executive vice-president of the Downtown Business Men's Association. He later was manager of the Hollywood Bowl and Marineland. He retired two years ago. In 1954 he was named a trustee of Palos Verdes College, Rolling Hills. Surviving are his widow and three sons, including Raymond Jr., '42.

STEPHENS—Mary Julia Borges Stephens, RN '24, PHN '28, died March 14, 1961.

TIBBE—Cuthbert Pierce Tibbe died July 5 in Washington, Mo., of a heart attack. He was 60. He joined Dean Witter & Co. in San Francisco following graduation and during this period he sang with the San Francisco Opera Co. He later moved to New York and in 1941 he joined the St. Louis Union Trust Co. In recent years he devoted his time to family estate interests in Washington, Mo. At Stanford he was a member of Ram's Head and Beta Theta Pi. Survivors include a sister and three brothers, including Jan Tibbe, '28.

1925

JACQUELINE — Dorothy Grant Jacqueline died July 8 in Washington, D.C. She was 57. An economist with the Central Intelligence Agency, she had been in government service for more than 20 years. Survivors include two brothers.

1927

EDLIN—Dr. Raymond Jerome Edlin died July 16 in Seattle, Wash. He was 58. A dentist in Seattle, he was a member of the King County Dental Society and a charter member of the National Children's Dental Society. He was a district commissioner for the Boy Scouts of America and a retired lieutenant colonel in the Army. Dr. Edlin received his DDS from Washington University, St. Louis, and had practiced in Seattle for 25 years. He was a native of San Francisco. Survivors include his widow, two sons, a daughter, and two stepdaughters.

1929

BAUM—Robert Frederick Baum died May 27 in Seattle, Wash., after a long illness. He was 56. He was a native of Fort Bragg. Following graduation from Stanford he joined the Timken Roller Bearing Co. in Canton, Ohio. In 1944 he was transferred to Seattle as Northwest district manager, a position he held until illness forced his retirement several years ago. Survivors include his widow; a son, Lawrence, '64; and a daughter, Barbara, '63.

OGG—Dr. Richard Andrew Ogg Jr., AM '30, PhD '32, professor of chemistry at Stanford, died June 19 in Atherton. He was 53. A member of the faculty since 1935, he was internationally known for his research. He was a specialist in infra-red deduction and low temperature transmission of electricity. He pioneered in experiments using the nuclear magnetic resonance method of measuring high speed chemical reactions too fast to be measured by other means. He was credited with 12 discoveries in the field of low temperature physics and made important contributions to the U.S. defense effort during and after World War II. Survivors include his widow, the former Jacqueline Poley, '42, AM '45, two sons, a daughter, and his mother.

1930

DIXIT—Kanhaiya Lall Dixit died July 17 in Palo Alto after a short illness. He was 63. A native of India, he determined to remain in California following his graduation from Stanford. Since 1934 he had operated Dixit's India Imports store on University Avenue. Survivors include his widow and a daughter, Shela Dixit Patel, '60, AM '61.

1931

FORBES — Robert Parsons Forbes died recently when his plane crashed in the Boise National Forest, Idaho. He was 52. Formerly head of the Forbes Construction Co., he recently had moved from Piedmont to Phoenix, Ariz. While at Stanford he was a member of the championship tennis team. Survivors include a sister, Elizabeth Forbes Bradley, '35.

1933

SIMMONDS — Dr. Raymond Julius Simmonds, MD '37, died May 7 in Sacramento.

1934

WARK—Carlos Richard Wark, Engr. '37, died April 18 in Phoenix, Ariz., of cancer. Survivors include his widow and a son.

1935

LUKE—Dr. Ian Watson Luke, MD '39, died in May in Hillsborough. He was 46. An obstetrician, he had offices in San Mateo. At Stanford he became a member of Phi Beta Kappa and graduated with Great Distinction. Survivors include his widow, the former Barbara Owen, '41; three sons; a daughter; his parents; and a brother, Dr. Maurice R. Luke, '43, MD '46.

1936

IRELAN—Arthur Lee Irelan died Jan. 12 in Helena, Mont., of a coronary attack. Survivors include his widow.

1939

FRY—Kathleen Anne Benet Fry died July 15 in Palo Alto of a brain hemorrhage. She was 45. A native of New York, she moved to Palo Alto when she was five. Her husband, George Blanchard Fry, '35, is an executive with the Honolulu-Hawaii Oil Co. of San Francisco. Mrs. Fry was active in the San Francisco Junior League, the Red Cross, and the Girl Scouts. In addition to her husband she leaves four children; a brother, James Benet, '35; and a sister, Frances Benet Dawson, '38.

1945

JANUS—Esther Edwards Kelsey Janus died July 5 in Long Beach after a long illness. Survivors include her husband and two daughters.

1953

PIERCE — Dr. Stirling Hoover Pierce died May 27 in Tiburon, Calif., after a year's illness. He was 30. Following his graduation from Stanford he participated in an expedition to Koror Island to study sea life. He later graduated from Vanderbilt Medical School and served his internship at Stanford. At the time of his death he was associated with the Presbyterian Medical Center in San Francisco on a grant to study medical electronics. Survivors include his widow, the former Jacqueline James, Gr. '52–55; a daughter; and his father.

1961

BUSHMAN—Craig Burlingame Bushman and his wife, the former Martha Lee Hammons, '62, were killed in an automobile accident in Woodside June 18. Bushman, who was 22, was attending Harvard Law School. He had a summer job with FMC Corp. in San Jose. They were living in Los Altos. Bushman was admitted to Phi Beta Kappa while at Stanford. His social fraternity was Delta Tau Delta. Mrs. Bushman was also an honor student. She had planned to enroll at Stanford for the summer quarter. She was 20. Surviving are the parents of Mr. Bushman, and her father, Hal V. Hammons, '32.

Business

KENNEDY—John Graeff Kennedy Jr., MBA '39, died June 25 in Palo Alto. He was 49. A native of Palo Alto, he attended Pomona College before entering Stanford for graduate work. For the past six years he had taught at Menlo College. Survivors include a son.

Education

BROWN—Kenneth Nelson Brown, AM '51, died July 5 in El Paso, Tex. He was 38. He had taught Spanish in California, England, and Argentina. For the past two years he taught in Carlsbad, N.M. Survivors include his widow, his mother, a sister, and a brother.

CLUTE—Donald Frederick Clute, Gr. '50, died Sept. 30, 1961, of a heart attack. Survivors include his widow.

LEARNED—Roy Ernest Learned, AM '25, died June 17 in Sacramento. He was 70. A retired professor of education at the University of the Pacific, he had served as chairman of that school's elementary education department. He was a member of the State Curriculum Commission and had served as editor for the yearbooks of the California Elementary Administrators Association and the National Education Association's department of elementary school principals. He helped organize a four-year research project in teacher education that led to a new source of teacher supply in junior colleges. He began his teaching career in Salt Lake City and was principal of schools in Sacramento County for 30 years. Survivors include his widow, two daughters, a stepdaughter, and a son, Vincent R. Learned, PhD '43.

MITCHELL — Norwood Ormsbee Mitchell, AM '52, died in June in Lodi, Calif. He was 37. He had taught in Westwood, Half Moon Bay, Galt, and most recently Manteca. Survivors include his widow and his father, Elwood Mitchell, '17.

Engineering

SCOFIELD—James Harry Scofield, Gr. '37, died June 6 of arteriosclerosis. He was 74.

To Helsinki and Back

(*continued from page 29*)

an official in the Ministry of Culture. He seemed well acquainted with Youth Festival procedures; when we asked, he admitted that he had represented Russia at previous festivals and that he had been "in training" for this one for several months before coming to Helsinki.

HIS CAUTIOUS and controlled answers contrasted sharply with those I received during an all-night conversation I had with some younger Russians a few days later. During this evening, in order to escape the fumes of the tear gas used by Finnish police to break up a potential demonstration, I ran with Tom Grey, a senior from La Jolla, and several hundred other people into a park a couple of blocks from Mannerheim Street. Once in the park I discovered that Tom had disappeared in the crowd and that I had been running alongside a group of eight Russians. They recognized me as an American by my shoes and immediately asked me if I had come to Helsinki to incite the Finns to riot.

Explaining that I was there to observe the festival, I showed them my press card and told them I hadn't seen the slightest indication that Americans were instigating the riots. Two spoke English and translated what I said to the other six, after which we all became quite friendly. We talked in the park for awhile, and then I accepted their invitation to accompany them to the Russian ship.

We walked right through the guards at the gangway. I followed them to a small wardroom somewhere in the bowels of the liner. We sat down around a long table, the door was locked, and somebody produced a bottle of vodka. For over three hours I was asked practical questions about the United States—from how much it costs to attend a university to how many and what kind of machines my mother has in her home. I mentioned that I planned to visit Denmark and Sweden before going home and they expressed unhappiness that they had to return directly to Russia. They were quite open in discussing the problems posed by a controlled press.

These Russians were receptive, and interested in all I had to say. Of the eight, six were members of Soviet cultural groups performing in Helsinki and appeared to be almost apolitical in their orientation. The other two were young farmers, in Helsinki as a reward for exceeding their local crop production quotas. At the completion of our discussion I was escorted back past the guards and off the ship. After being sent on my way with a warm embrace I walked back to the school where we were staying, happy to be in Helsinki.

COMMUNISTS seemed to treat the festival as a means to an end rather than as an end in itself. The stress and much of their success came from the pre- and post-festival tours through Eastern Europe and Russia which were organized for most of the delegates from Asia, Africa, and South America. These trips and transportation to and from the delegates' home countries were financed out of the festival's "solidarity fund." At every stop during these tours the delegates received "red" carpet treatment. Many were given scholarships to study in Communist universities before returning to their homelands.

This gambit brought rewards. of the uncommitted recipients with we spoke were impressed and seeme a direct result, to be uncommitte longer.

Such graphic illustration of the tiveness of exposure through travel educational grants had a profound on most of us. I, for one, am paying closer attention to the foreign stu here at Stanford, and whenever pos I am telling groups and organiza about the importance of offering sch ships to bright uncommitted youths newly emerging and underdevelope tions. Too often in the past we have centrated our efforts on those alread our side.

WAS OUR TRIP a success? It's imp ble to measure how successful Communists were in promulgating

REALTORS

HOMES & INVESTMENTS
INSURANCE
MORTGAGE LOANS
PROPERTY MANAGEMENT

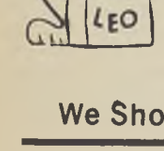
9 Stanford grads associated with

HARE, BREWER & KELLEY, INC.

Since 1925

DA 3-5155 ■ 525 University Ave., Palo Alto

Personalized Travel Counseling



Leo T. Sides

THE TRAVEL SERVICE, INC.
Shopping Center at Stanford
Palo Alto, California
Davenport 4-1691

We Show You How To Go

WANT HIGHER SALARY, BETTER OPPORTUNITY, SECURITY?

"NER" reports on hundreds of $7,000–$35,000 Executive job openings monthly. Get free copy..

National Employment Reports
105 W. Adams, E-2, Chicago 3

Plan Now To Attend

Big Game Gaieties of 1962

A MUSICAL REVIEW

November 20, 21, 22, 23

Tickets: $2.00, $1.50, $1.00

Mail orders accepted until November 12

RAM'S HEAD PRODUCTIONS
P.O. BOX 3732
STANFORD

Antique Stanfordiana

Where the Rolling Foothills Rise, published in Nostalgic Stanford color scenes, poetry and h cal sketch. A thoughtful alumni Christmas Copies limited. All new, some marked by $4 postpaid in U.S.; add 25¢ for foreign. P.O. 2523, Stanford.

propaganda, and it's just as difficult to measure the effectiveness of the Stanford '33. The pro-Western speeches in the seminars certainly were only ripples in the sea of party line propaganda. More tangible gains came from the literally hundreds of personal contacts we made; we know we did a little bit of good in this way.

But greatly outweighing what little we might have contributed was what we experienced personally of the techniques practiced by the Communists, and of the accompanying intolerable lack of personal freedom and self expression. None of us will soon forget the many lessons learned.

We wish more people could have this kind of direct contact; most of us came home with reinforced conviction that a little first-hand knowledge can't hurt you.

Coat-Tails Aren't Enough

(Continued from page 20)

occasion regarded as undue interference and is resented by the electorate. Many constituents respect an attitude of independence in a legislator, and decline to support a rubber-stamp candidate. In other districts, however, his open support may be a determining factor.

A Presidential appeal directly to the voters in a Congressional election involves obvious dangers, and the risk of failure is great. In 1918, the much-discussed appeal of President Wilson for the election of Democratic Senators and Representatives resulted in Republican control of both Houses. Wilson's statement has been characterized as "the most suicidal document ever sent out from the White House."

In the 1938 mid-term election President Roosevelt, ignoring the advice of astute political advisers, attempted a purge of members of his own party who had refused to support his legislative program. He succeeded only in one instance, the least important.

President Eisenhower, during campaign tours both in 1954 and 1958, urged the election of Republican candidates. He was uniformly unsuccessful.

IT WOULD be naive to suppose that President Kennedy, an experienced and able politician, is not well aware of the failures of his predecessors. He has adopted a different plan for 1962. The thinly veiled anonymity and the transparent disguise of "nonpartisan" journeys to various areas will be abandoned. As leader of his party he will campaign in states or districts north of the Mason-Dixon line for the re-election of Democrats who have supported his domestic program and for new Democratic candidates who promise to do likewise. This positive approach to the solution of a delicate and difficult problem is more intelligent and may be more successful than former methods.

The Administration recognizes the great importance of California in the 1962 election. The President is expected to campaign in Northern and in Southern California, and he will no doubt appear also in New York, Pennsylvania, Illinois, and Ohio.

CONCLUSION: Any prophecy I can make is only a guess, but it is clear that the Republicans cannot obtain control of the Senate in 1962. It seems

SCHOOL DIRECTORY

SCHOOLS FOR BOYS

MENLO School & College

TWO MILES NORTH OF STANFORD
WILLIAM E. KRATT, President • Member of California Association of Independent Schools

SCHOOL
College preparatory for grades 7 through 12. Day and boarding department for all boys.

COLLEGE DIVISION
Freshman and sophomore college years, in preparation for upper division college and university work.

SCHOOL OF BUSINESS ADMINISTRATION
Four year college, offering courses which lead to the degree of Bachelor of Science in Business Administration.

College Summer Session

FOR CATALOGUE AND FULL INFORMATION, WRITE OR PHONE:
Director of Admissions, Menlo School & College, Menlo Park, Calif.

The Robert Louis Stevenson School

"On the Seventeen Mile Drive"
PEBBLE BEACH, CALIFORNIA
College Preparatory
Grades 7–12
ROBERT U. RICKLEFS, '31, Headmaster
Box 110 Pebble Beach, California

WILKINS PRIVATE HIGH SCHOOL

Accredited
Preparatory to California, Stanford, and all Colleges using the accredited system.
Preparation for college board exams, West Point, Annapolis—Coeducational Summer School Classes.
RUTH WILKINS RAYMOND, Principal
FIllmore 6-5906
3636 Washington Street San Francisco

COEDUCATIONAL SCHOOLS

THE ORME SCHOOL

ON THE QUARTER CIRCLE V BAR RANCH
(Coeducational—Grades 7 through 12)

Thorough college preparation at a fine school located in the heart of Arizona on a 40,000 acre working cattle ranch. Accredited. Training in good study habits. All students prepared for College Board Examinations. Skillful supervision and intelligent home training. Horse for each student and ranch chores. Character development and training in leadership emphasized. Ideal climate for outdoor life. Cultural advantages. Team sports. Participation in cattle round-ups.

SUMMER CAMP
Eight weeks featuring extensive horseback experience for each camper with riding each day for all and a motor caravan through the scenic Southwest. Large swimming pool, tennis, crafts, camper rodeo and gymkhana. Tutoring.

MAYER, ARIZONA
Minna Vrang Orme '16 Charles H. Orme '16
Charles H. Orme, Jr. '41

SCHOOLS FOR GIRLS

THE BISHOP'S SCHOOL

Upon the Scripps Foundation
LA JOLLA, CALIFORNIA
A RESIDENT AND DAY SCHOOL FOR GIRLS
Intermediate and Upper School Work
Prepares for Eastern and Western Colleges
ART • MUSIC • DRAMATICS
Write to Director of Admissions

CASTILLEJA SCHOOL

Founded by Mary Lockey, '02, in 1907
A Day and Resident School for Girls
GRADES 7–12
Accredited to Both Eastern & Western Universities
Member of California Association of Independent Secondary Schools
Margarita Espinosa, '27, Principal
PALO ALTO CALIFORNIA

CRYSTAL SPRINGS SCHOOL

A Day School for Girls. Grades 7 through 12. College Preparatory courses only. Advanced Placement Programs for superior students. Junior Scholastic Aptitude Test required for Admission.
Adele Strogen, B.S. Boston University, M.A. Columbia University, Graduate Study Stanford University, Assistant Dean of Women Stanford (1947–57)
Headmistress
281 Sierra Drive Phone DI 2-4175
HILLSBOROUGH, CALIFORNIA

equally certain that only a victory of landslide proportions would give the party a majority in the House. However, if the party can maintain its present strength and secure additional seats, primarily in the Middle West, Republican leaders would be encouraged and party prospects for 1964 would be improved.

Republican gains in Congressional delegations from the agricultural Middle West would strengthen the conservative coalition in the House, thus adding to the difficulties of the Administration. A surprising aspect of the current campaign is the organized Republican effort to secure support in the South. A feature of the 1962 election and one which may have subsequent significance is the sustained effort of the Republicans in the Solid South. This year Republican candidates have been entered in seven Senate contests (including South Carolina!), and in 64 of the 113 Southern districts.

No doubt it is encouraging to Republicans to recall that only in one mid-term election, that of 1934, has the party in control of the Presidency gained seats in the Congress. The struggle for control between moderate and conservative Republican leadership and policy will continue. There is no evidence to support the view that the "radical right" can refashion the Republican Party in its image.

IF THE DEMOCRATS can gain a dozen Congressmen who will support the promised New Frontier, the negative effectiveness of the conservative bi-party coalition in the House of Representatives will be checked, and possibly destroyed The additional supporters of the Administration could be secured in two areas: first, an increase in the number of Northern liberal Democrats; and second, a similar gain in the California delegation. It's worth repeating that the importance of the 1962 election in California is increasingly apparent to both parties, and results will be of national significance

But regardless of the outcome in November, there will be no fundamental changes in important aspects of our political system. The parties will remain loosely organized, poorly disciplined, divided in opinion. The paradox of Congressional government will remain, in the selection of the Speaker, the leader, the chairmen, and the majority members of the respective committees be controlled by the partisan majority while the actual majorities in the passage or defeat of proposed legislation will continue to be bi-party combinations.

Strictly party votes in Congress will be rare, almost as rare as a white blackbird. Results will be obtained by concession and by compromise. State and district interests will take precedence on many occasions, with only casual loyalty to party or to the Administration.

There appears to be no prospect whatever of a party realignment of liberals versus conservatives, even if it were possible to define those vague terms—which it is not.

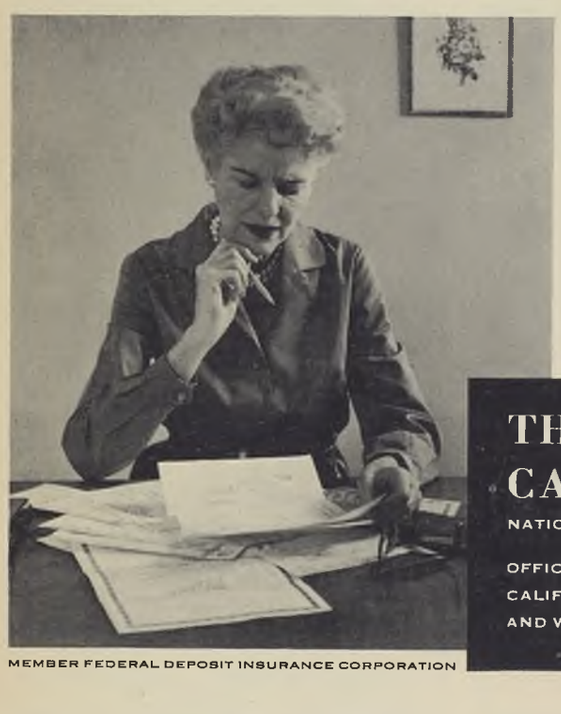
A BUSY and somewhat indifferent electorate, mentally obfuscated or merely bored with the clamor and partisan malice believe of a political campaign, may find consolation in the words of the late Will Rogers: "No other business could afford to carry such deadwood. But we got them and they are going to live off us some way so we just as well put long-tailed coats on 'em and call 'em statesmen!"

Some of My Best Friends Are Eggheads

(*Continued from page 2*)

American speech. That degeneration has various causes; we are so hurried and hard-pressed nowadays that we do not seem to have time to write or talk the English of Jefferson's day. A lot of us dictate our letters, and confine our vocabularies to the 800 words we are reasonably sure our secretaries can spell. Television and radio have presumably taught a lot of people the pronunciation of many words they rarely if ever hear spoken except on the vacuum tube; but they also perpetuate a shocking number of errors.

I DON'T WANT to appear to pick on the intellectuals; some of my best friends are eggheads. It seems clear to me, however, that in regard to mass communication they are nursing to their bosoms



An estate can be a burden, too!

Ask about the advantages of naming this bank as your executor.

THE BANK OF CALIFORNIA
NATIONAL ASSOCIATION
OFFICES IN CALIFORNIA, OREGON AND WASHINGTON

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

☆ Stanford's Favorite Since 1932! ☆
Refreshments ☆ Dinners ☆ Banquets
André's L'OMELETTE the FRENCH RESTAURANT & BISTRO
2 Miles South of Stanford on Old El Camino Real
☆ Closed Mondays and Tuesdays ☆

least five myths, which distort their views:

1. The myth that there is a mysterious "they," who are conspiring to debauch our culture for their own fell purposes. "They" are only business men, trying to make an honest though fast buck, and any destruction of our culture is incidental and accidental.

2. That things were better in some halcyon past, and have lately been degenerating at an ever-increasing pace.

3. That if you just denounce television long and loudly enough, maybe it will go away.

4. That most people are poor little whiffenpoof sheep, easily led astray, and greatly harmed by things that do the intellectual no harm at all.

5. That their own tastes are automatically and forever the best, and that anyone who disagrees is tainted at least slightly with moral leprosy.

Professor Boorstin complains that our life today contains too many "non-events" –fictitious happenings dreamed up in advance by press agents. But I feel he misses the real point. We get too much of both non-events *and* events. The machinery of communication is overbuilt; we are inundated by a Niagara of too much information. I don't really want to know as much about anything as I am told nowadays about practically everything. After awhile, a merciful shield of inattention is created–but this has its bad side, too.

I HOLD NO SPECIAL BRIEF for American culture today. Some things about it are bad, and getting worse. But many things are good, and are getting better. It is going in all directions at once, like so many other aspects of life. In no other country in the world, to my knowledge, is there more intellectual curiosity, or so many ways of gratifying it. In no other country are the people so humbly eager for self-improvement, or willing to spend so much time and money on it.

And finally, despite the efforts of some to smear the word, we are politically a democracy. We can't practice our democratic faith successfully without cultural democracy as well. There are a lot of discouraging features about democracy; the only thing you can say for it is that it is better than any other system ever invented. There are discouraging things about cultural democracy; but they are curable and some are being cured. Our way of life is being challenged in the Cold War as never in the past; we can't afford to have our intellectuals acting like passengers on a ship in a bad storm, standing on the top deck and sneering at the crew. I would appeal to them to "rejoin the human race" instead of wasting their time in the deploring that is so much fun, to join in the common effort.

BUSINESS AND PROFESSIONAL DIRECTORY

SHEARSON, HAMMILL & CO.

Founded 1902
Members New York Stock Exchange and other leading Stock Exchanges

SANTA BARBARA
1007 Anacapa Street • Woodland 5-8571
FRANCIS B. MANCHESTER '26, *Resident Manager*

Complete Brokerage Facilities • Professional Investment Management Service

"SERGENERAL"

A limited company of
COLOMBIA-SOUTH AMERICA
PROPERTY MANAGEMENT
INTERNATIONAL TRADE COUNSELORS
Commerce and Industry Studies
Tax and Exchange Problems
U.S. residents receive important U.S. tax exemptions on Colombian realty holdings.
Inquiries invited.
Bank References in California, New York, South America

Air Mail Box 1561 — Cali, Colombia
Cables: "Sergeneral — Cali"

FRED W. PEARMAN '34
Partner and Manager

LEVISON BROTHERS

General Insurance Brokers

Providing Our Clients Analytical and Objective Insurance Service

Robert M. Levison, '21
Robert M. Levison, Jr., '48
Douglas M. Heller, '53, M.B.A. '57

233 Sansome St. **San Francisco 4**
GArfield 1-4221

Palo Alto Transfer and Storage Company

AGENT ALLIED VAN LINES, INC.
Serving Stanford since 1902

J. D. FESSIO, '34
Vice-President Sales and Service

Palo Alto
151 Homer Ave.
DA 5-0061

Sunnyvale
360 E. Evelyn Ave.
RE 9-4700

SERVICES FOR EVALUATION, DEVELOPMENT, AND UTILIZATION OF NATURAL RESOURCES

Carroll G. Bradberry & Associates
CONSULTING ENGINEERS
LOS ALTOS · CALIFORNIA

Land–Water–Petroleum–Minerals

BUICK— or RAMBLER— ANYONE?

"BONES" HAMILTON
5747 Van Nuys Blvd. **TRiangle 3-1177**
VAN NUYS **STate 5-7423**

Edwin C. Porter, '43 William F. Hooper, '44

PORTER-HOOPER & CO.

Insurance Brokers and Consultants
204 S. Beverly Drive **Beverly Hills, California**
Crestview 5-4329 **Bradshaw 2-2714**

Parsons Optical LABORATORIES

- dispensing opticians BILL GREEN '47
- contact lenses DAN BROWER X '27
- surgical and diagnostic instruments

SAN FRANCISCO—STANFORD—SAN MATEO

Jack Beach, '35 Ainslie Bell, '48

BEACH, CHURCH & BELL

Petroleum Exploration

3120 Eighteenth St. FAirview 7-3021
Bakersfield, California

AZEVEDO BROS.
Jewelers to Stanford Men & Women since 1936
DIAMONDS—WATCHES—SILVERWARE
Graduate Gemologist 1958
Stanford Charms & Crests
Suite 321, Shreve Bldg.
210 Post St. San Francisco 8
M. Arthur Azevedo, '34
Certified in Diamond Grading and Evaluation by the Gemological Institute of America

JOHN LEAHY ASSOCIATES

Consultants for Estate, Business and Employee Benefit Plans. Agents for Life and Disability Insurance and Annuities

1730 Kearney Street **San Francisco 11**
YUkon 2-0626

WALTER H. LEVISON, '24

GEM CONSULTANT & APPRAISER

Special Order Work

Estate Jewelry Bought, Sold, and Appraised
210 Post St. San Francisco 8 (DOuglas 2-4752)

RICHARD L. PARKER, '52

NATURAL GAS CONSULTANT

Vaughn Bldg. **Amarillo, Texas**

MARK TUBAN INC.

Authorized Ford Dealer
YOrkshire 7-6911

S. '55 **111 El Camino Real, Mt. View**

Stanford Books and Author

Sometimes Even Magic Isn't Enough

Pearl Harbor: Warning and Decision

By Roberta Wohlstetter

Stanford University Press, 1962; 426 pp., appendix, bibliography, index

The great Naval historian Samuel Eliot Morison says this is "the best book by far on the question of why we were surprised at Pearl Harbor . . . Mrs. Wohlstetter's book ought finally to dispose of some of the nonsense about Pearl Harbor that has been written."

The partisan game of trying to pin major responsibility on one top official or another still goes on, but with each chapter Mrs. Wohlstetter makes it increasingly clear that there is plenty of blame to go around, and that it must be shared by almost everyone—from the President on down. Heroes are few and minor.

Ambassador to Japan Joseph C. Grew is one of the latter. Sensing that policy makers had fallen into the trap of considering the Fleet solely as a deterrent, not as a potential target, he warned Secretary Hull against "any possible misconception of the capacity of Japan to rush headlong into a suicidal conflict with the United States . . . Japanese sanity cannot be measured by our standards of logic."

It did no good. Mrs. Wohlstetter concludes that in dealing with final Japanese moves our leaders were "impulsive, shortsighted, and heavily influenced by wishful thinking." There was never any detailed discussion of alternative Japanese strategies. It later turned out that U.S. and Japanese estimates of the risks Japan faced in adopting such a course were almost identical. "What we miscalculated," says the author, "was their ability and readiness to accept such risks."

Because an American cryptanalyst had cracked Japanese diplomatic (but not military) codes, we had more advance information than we're ever likely to have again. But contrary to popular belief, no Magic message (which is what we called our intercepts) ever gave the where, when, or what.

Still, there was much to go on. Mrs. Wohlstetter finally explodes the "winds-code" myth, which she says would have supplied nothing not already known three days before the attack even if an authentic "execute" had ever been received. But responsible officials in Washington and at Pearl Harbor were expecting war on that week-end. We had staged a successful carrier attack on Hawaii in our own war games several years before. We had lost track of the Japanese carriers, and merely *assumed* that they were in home waters. We knew such an attack was feasible, we knew the Japanese had the capacity to mount it, and we knew of their propensity to smash without warning the most dangerous force in their path. But we assumed they would not dare. It wasn't even a calculated risk. We just did not think they'd bomb Hawaii—and we didn't want to interrupt training exercises.

In some respects, what happened in the Philippines is even more appalling. With nine hours' warning our commanders in Manila managed to get our entire Far Eastern air force shattered on the ground, without attempting even one attack on the Formosan staging areas from which the Philippine invasion soon was mounted.

Perhaps there is no longer much point in trying to establish *who* was most to blame for the disaster. But as Professor Thomas C. Schelling of Harvard points out in his foreword, finding out *what* happened, and *why*, is vital to our present and future circumstances; surprise attack is not necessarily a thing of the past. Professor Schelling finds Pearl Harbor disquieting because it was a supremely *ordinary* blunder. He notes a tendency in our planning to confuse the unfamiliar with the improbable, and finds individual human beings unable to rise to the occasion "until they are sure it *is* the occasion—which is usually too late."

Stanford Press has published a notable book. Its flaws are few and minor, its information comprehensive, many of its insights superb. It should become the definitive work on this topic. —*Dan Endsley*

No Quiet on the Southern Front

South Wind Red—Our Hemispheric Crisis

By Philip A. Ray, '32, LLB '35

Henry Regnery Co., Chicago, 1962; 224 pp., appendix, index

This volume written by a former Under Secretary of Commerce who obtained both his AB and law degrees at Stanford gives a very convincing and startling presentation of the success of the Communists in winning the Cold War in Latin America and a well thought-out and feasible program to combat it. His primary thesis is simply that we must stimulate private investment from the United States in the Latin American states in place of our government aid which "contra-

flicts the very system upon which our economic strength is based."

While conceding that the conquest of Cuba has been the Communists' greatest triumph in the past decade and is an ideal beachhead for Communist infiltration in the Western Hemisphere, he points out that social and economic conditions in Venezuela, Peru, Chile and Colombia have prepared the soil for a potential similar development. In Argentina the labor unions are communist dominated and the success of the Red Peronistas in the March 1962 elections forced the ouster of moderate President Frondisi. In Brazil President Goulart has withdrawn from the Western bloc and his brother-in-law Governor Brizola of Rio Grande do Sul has just confiscated the properties of the local telephone company owned by International Telephone and Telegraph Corporation of New York. In Ecuador President Arosemena has openly sponsored the Castro cause. Even in neighboring Mexico the predominating political party is pro-Castro and former President Cardenas is bitterly anti-United States. Some 55 communist or procommunist publications appear in Mexico and 35 "cultural attachés" of the Soviet embassy attend the University of Mexico.

For over a century and a quarter the Monroe Doctrine has protected the Americas from political aggression from abroad but the imperialistic brand of Soviet Communism has now become a more insidious and deadly threat to the democratic systems of the Western Hemisphere. Socialism and communism are regularly equated and in the words of a prominent Chilean "Socialism has turned out to be more of a cloak for communism than a shield against it."

UNFORTUNATELY, the writer points out, much of American aid to combat communism through the Export and Import Bank, the Inter American Development Bank and the U.S. Development Loan Fund have strengthened the socialist trend by supporting state ownership of industries and commercial enterprises. The new Alliance for Progress follows the same road: "more government-to-government aid, government intervention, government planning, government ownership policies that can do nothing except push Latin America faster down the road to communism."

Instead, the author wants private capital to flow into Latin America on a vastly increased scale on the ground that "free institutions operating within the framework of political democracy will inevitably prevail over a regimented society." The role of the Government of the United States should be "to insure American investors in Latin America and other less developed countries against all political or noncommercial risks, including expropriation without compensation, riot, sabotage, or exchange controls and war." The present law requiring a treaty with the host government, and approval of each new investment, with $1 billion aggregate ceiling, should be repealed. The protection should be automatic for both existing and new investments. Furthermore, the insurance should be available to an enterprise only if a substantial number of shares should be made available in small lots to the Latin American public and if an effective profit sharing plan for employee acquisition of stock be established. Also the protection should require the firm agreeing to employee training programs with a basic educational and vocational content. The political risk insurance would take the scare out of investing in Latin America, and local investment would spread the fruits of capitalism. Profit sharing and training would strengthen private enterprise and weaken communism.

The author found overwhelming support of his plan among the numerous Latin American political and financial authorities to whom it was submitted. It is a logical program to develop Latin America based upon principles and practices conforming to our traditions.

IT MIGHT be worth noting that another business authority, Thomas Aitken Jr., who did undergraduate and graduate work at Stanford, in a volume entitled *A Foreign Policy for American Business* published in 1962, brilliantly proves that "American business has become a facet of American foreign policy" and the government must protect it against confiscation and foreign currency devaluation. —*Graham H. Stuart*

OTHER CURRENT BOOKS OF MERIT—John Steinbeck, '23: *Travels With Charley* (Viking); Steinbeck, a great one, is hereby reclaimed for Stanford—even if he *wasn't* good enough for our English department as a freshman. His thin travelogue is packed with wise observations about the U.S.A. . . . Edith Mirrielees, '07, ed., *Stanford Mosaic* (Stanford); both moving and delightful, this paperback is well worth the $2.28 postpaid the Stanford Bookstore asks ($2.20 outside California).

SEE IT HAPPEN BEFORE YOUR VERY EYES

SUBSCRIBE

NOW

the stanford

CHAPARRAL

Box 7256 Stanford, Calif.

Bill $3.00 to:

Name_____

Address_____

A Hundred Million Misunderstanding

To one whose ears oscillate excruciatingly at sound of the term "we intellectuals" (not to mention "*us* intellectuals"), Bruce Bliven's non-definition tranquilizes a tense tympanum: "The only safe rule is that if you claim to be one, you aren't." (See "Some of my Best Friends are Eggheads," page 22.)

You might go all the way and suggest that there really is no such thing as an "intellectual." *You* might, but you're on your own, friend; my limit is a quavering admission that in my personal lexicon "intellectual" is an adjective, not a noun. Yes, I admit the dictionary people endorse use of the word as a noun, but what do *they* know? Before I die I expect to hear executives saying "Intellectual me a new ad campaign, Charley"—and the Bergen Evans of that day will be right on hand to attest that use as a verb is proper too—because, after all, isn't everybody doing it anyway?

As presently employed the noun becomes a synonym for a particular set of tastes, not ratiocination; beyond that, for intolerance of all other tastes. This attitude seems hardly "intellectual," but there it is. Even so, Bruce Bliven had better watch out. If his arguments should catch on in the right places he might become known as "the intellectuals' intellectual."

Although Mr. Bliven's many friends will be delighted to know that he has made remarkable strides toward recovering his health and is writing regularly again, some may take his defense of mass communication as a sign that his critical instincts have suddenly been drowned in a spate of tolerance. Have no fear; even while defending the system, he couldn't resist a few surly swings in the cause of semantic security:

"I never cease to marvel that broadcasters who can pronounce correctly the names of all the composers of music and all the world's statesmen don't know that when any given word is both a noun and a verb, the noun is usually accented on the first syllable and the verb on the second. You almost never hear 'He pro*tested*' any more, only 'He *pro*tested.' Well, I pro*test* this sloppy misuse of the language.

"In the welter of collapsing standards, melting like candles on a summer's day, 'contact' is now a verb, 'like' is a conjunction, 'data' is a singular noun [so is 'alumni' —ed.], 'literally' has come to mean its exact opposite, 'figuratively.' I could go on at length with this dreary litany of rules and words maimed or murdered by people who don't care. I am well aware that the langua is changing, that nobody can stop it. I just want understood that I am being dragged, kicking a screaming, at the tail end of the procession.

"And now we have a school of our supposed auth ities, like Bergen Evans, who maintain that whate is, is right, that usage automatically makes correctne Among these is to be found the new edition of Webste Dictionary, the Supreme Court of American English. am not appeased by that fact that, so I am told, I a cited in the new Webster's several times as an authori Like Groucho Marx, who wouldn't belong to any cl that was willing to have him for a member, I do want a dictionary that cites me as an authority. want them to cite Shakespeare, Emerson, Thoreau, a Thomas Jefferson.

"In the days before written mass communicati language regularly broke down in the course of ti into separate tongues, or into dialects. Latin fragment over the centuries into Italian, Spanish, Portuguese, a French. Illiterate tribes in Africa or the Orient us to speak a dozen tongues within a radius of a few sco miles. Dictionaries, aided by old fogies like me, soug to serve to slow down the evolution of the languag If we were to let it change as fast as the teen-agers, fo example, would like, all past literature would soon b lost to us because its vocabulary would be unintel gible."

Listen well, for he speaks wisely. Language mu be dynamic to serve expanding needs. It must als be precise. It's being eroded and adulterated. Me using the same words fail to understand each othe How many remember the difference between "flou and "flaunt"?

Imprecise usage is not change, but illiteracy. Whe a hundred million people decide to use a word diffe ently, nothing stops them, and that's all right—*if* th new usage remains precise. If not, it merely means hundred million misunderstandings—and that the larg est, richest vocabulary will soon convey little mor meaning than the cave man's grunt.

Change should be born of knowledge, not ignorance You must know the rules before you can earn the rig to violate them.

Dan Endsley

GOOD OLD BEN WOULD BE AMAZED

at how many different ways PG&E makes electricity these days. We generate electric power from falling water, fuel oil, natural gas, geothermal steam from geysers, and nuclear energy.

Career Opportunities: PG&E's continuing dynamic progress means new jobs in engineering, business management and many other fields. There's "growing room" at PG&E, the nation's largest gas and electric utility. Interested? We'll be glad to talk with you anytime. Inquire 245 Market Street, San Francisco, or any Division headquarters.

PG and E
Pacific Gas and Electric Company

OUR COVER shows an enlargement of the Herbert Hoover Medal, just established by the Stanford Alumni Association as a means of recognizing distinguished service by alumni.

For further information about this new award program see the announcement on the inside front cover

November-
December
1962

STANFORD REVIEW

In This Issue: This Oyster is Their World . . . *by Sanford M. Dornbusch*

Plus Features About "The Frenchman" and Tresidder Memorial Union

Published by the Stanford Alumni Association

November-December 1962

STANFORD REVIEW

Vol. LXIV No. 2

In This Issue:

Taste of a Millionaire
A look at the old Stanford mansion 17

This Oyster Is Their World
An appreciation by Sanford M. Dornbusch 18

21 Alias 'The Frenchman'
Peter Coutts: don't believe all you hear

24 The Tresidder Memorial Union
The fourth president would be proud

DEPARTMENTS • *The Campus Scene,* page 2 • *Faculty and Staff,* page 10 • *Stanford Family Forum,* page 12 *Club Calendar,* page 14 • *Dave Jacobson's Column,* page 24 • *Alumni Newsmakers,* page 27 *Book Reviews,* page 29 • *Strictly Personal,* page 36 • *In Memoriam,* page 46 • *The Editor's Column,* page 48

THE STANFORD REVIEW *is published bi-monthly at Stanford University (Palo Alto) with three additional newspaper supplements issued in Autumn, Winter, and Spring under the subtitle of* ALUMNI ALMANAC. *Second Class postage paid at Palo Alto, California. Subscription price: $6 per year, payable in advance, or through membership in the Stanford Alumni Association.*

DAN ENDSLEY, '47, *Editor and Manager*
KAY DALEY, '48, *Activities Editor*

Send news notes and other editorial material, and all inquiries about advertising rates and deadlines, to the Stanford Review, Bowman Alumni House, Stanford.

Change of Address: Notify Review Circulation Department, Bowman Alumni House, Stanford, Calif.

Stanford Alumni Association

GUY R. NEELY, '38, *President*

H. MELVIN SWIFT JR., '48, LLB '49, *First Vice President*

BETTY JEAN CALFEE MULVANA, '45, *Second Vice President*

BOB PIERCE, '49, *Director*

All persons who have matriculated at Stanford University are eligible for membership in the Stanford Alumni Association. Dues of the Association (a non-profit corporation): Annual, $6; life, $115; student special life rate, $100. All privileges begin with initial payment. Associate membership (for second member of a family at the same address as a full member, carries all privileges except Review subscription): Annual, $4; life, $75; student special life rate, $65.

Members of the Alumni Executive Board:
L. HAROLD ANDERSON, '23, Palo Alto
EUNICE FORCE BARKELL, '33, Berkeley
LEWIS L. FENTON, '48, Monterey
LAWRENCE S. FLETCHER, '28, JD '30, Piedmont
Brig. Gen. DON D. FLICKINGER, '29, MD '33, Washington, D.C.
SEBELLE HARDEN VON HAFFTEN, '44, San Francisco
DOROTHY FITGER HAIGHT, '50, Beverly Hills
JAMES C. HAUGH, '42, San Diego
RUTH ELIZABETH TUTHILL HAWES, '28, Portland, Ore.
JOHN B. ISAACS, '31, Los Angeles
WARD C. KREBS, '34, Hillsborough
PAUL V. LORTON, '31, Atherton
JAMES B. MCKINNEY, '46, LLB '48, Sacramento
JOHN N. MITCHELL, '43, La Cañada
STUART W. MORSHEAD, '50, MBA '52, San Francisco
BETTY JEAN CALFEE MULVANA, '45, Bakersfield
GUY R. NEELY, '38, Phoenix
MIRIAM STROUT PERELLI-MINETTI, '32, MBA '34, Hillsborough
H. MELVIN SWIFT JR., '48, LLB '49, Sherman Oaks
LYLE M. NELSON, University Liaison Officer, Stanford

Inspecting file-making machine invented by Da Vinci: Union Committee members Susan Woods and Brook Taylor. For the story of Project Da Vinci see back cover.

The Campus Scene

Mother of Presidents

HOPING to head one of the 500 largest U.S. industrial firms? A university degree grows increasingly vital—especially if it's from Stanford, first in the West and seventh nationally as a "mother of presidents."

A new study shows 25 percent of the presidents hold advanced degrees and only 10 percent didn't go to college at all—most of them in the over-60 age bracket. In the under-50 group, only 3 percent lack college training.

Trail-Blazing in Outer and Inner Space

MAYBE the moon is covered with cotton candy, says a Stanford scientist. Or has a crust of honeycomb; even crackerjack. But not green cheese—and he has the research data to prove it.

While he carefully gathered and studied his information, other Stanford research facilities were turned into a gigantic bakery for the concoction of two 12-foot hollow doughnuts, each requiring a ton of double vacuum-melted stainless steel "batter."

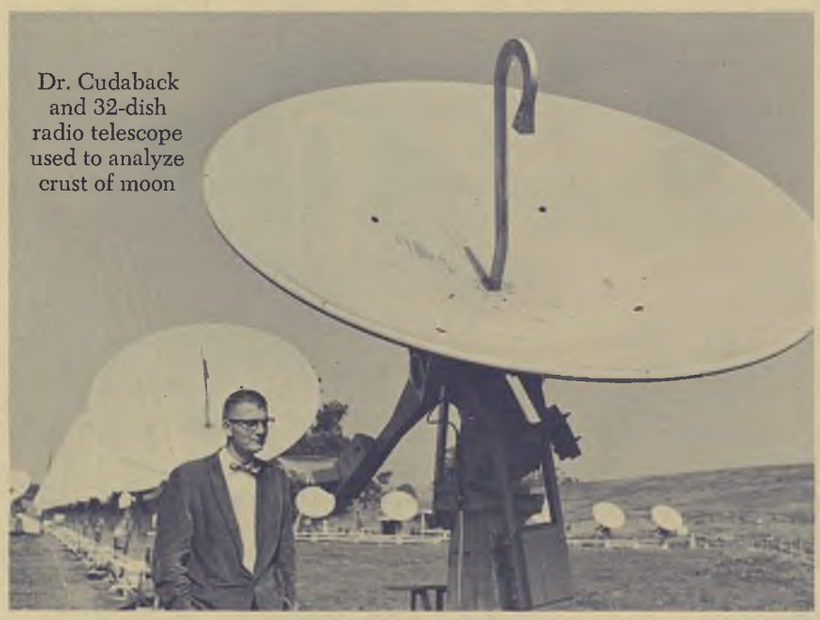
The doughnuts are not for serving with a gargantuan portion of moon-honey—they are vehicles for probing *inner* space. (Don't look for any connection between these two news items because there isn't any.)

The new moon theory was proposed by Dr. David D. Cudaback of the Stanford Radio Astronomy Institute. His observations, sponsored by an Air Force grant, were made by special manipulation of the 32-dish Stanford Cross radio telescope.

Using a long wavelength of 9 centimeters (about 3½ inches), he probed beneath the moon's surface and found it 80 percent porous for as deep as he was able to go. Between highlands and lowlands there was no difference in temperature or radio emission. Cudaback's work indicates that two previous theories are erroneous; the moon's surface is not a layer of dust lying on gravel, and moon explorers are not likely to find a windfall for which they have hoped—water frozen close beneath the lunar surface: "If there were much ice at depths shallow enough to be visible at radio wavelengths, we would have detected it."

The surface could be filamentary, like cotton candy, or foam-like, he said; if the latter, two types seem possible: "One type suggests crackerjack, where the foam cells have burst and released their gas. The other suggests a honeycomb, with its cell walls intact and still containing gas . . . If it is foam, this would have to have been formed in some yet unexplained way. If such foam-like structures had been produced eons ago, this would long since have been crushed and eroded away by meteors."

The highly porous surface probably has been produced by melting from meteor impacts, he added; different velocities of the melted material thrown off by the impact could cause the cotton candy layer.



Dr. Cudaback and 32-dish radio telescope used to analyze crust of moon

Detailed knowledge of the moon's structure is academic for most of us, but a matter of life and death for the astronauts who may soon land on it. The Russians, interested for the same reasons, have been pursuing similar studies. Two Soviet scientists recently concluded also that the moon has a "wooly, cottony" surface.

Physicists throughout the world are watching the "steel doughnut" experiment because it will provide the severest test yet devised for one of the most important principles in physics—the theory of quantum electrodynamics, which scientists use to explain how sub-atomic particles act in electric or magnetic fields. The theory does this very well as long as the particles get no closer together than one fermi (a ten- (*continued on page 4*)

Mark L. La Vine (at right) talks over details of a $250,000 sale with William Schroeder and Leo Nathan Bindman, key men whom he insured for the Schroeder Distributing Company of Los Angeles.

$18,000-a-year executive switches to selling life insurance

Mark La Vine was vice-president of a tire company for nine years before he came to work with New England Life. How did this well-established businessman do after changing careers? He sold one-and-a-third million dollars worth of life insurance in less than a year! That set an all-time record for his Los Angeles agency: never before had an inexperienced man qualified for the Million Dollar Round Table *his first year!* ■ "Having contacts from my previous business experience has been very helpful to me in life insurance," says Mark. "And my clients keep recommending me to other people they know, so I've been very lucky. But I really like life insurance . . . and people sense my enthusiasm. I enjoy working for myself and feel I can be a real help to the people I deal with." ■ Does a career like that of Mark La Vine appeal to you? If so, ask us to send you information about the opportunities that exist for men who meet New England Life's requirements. Write to Vice President John Barker, Jr., 501 Boylston St., Boston 17, Mass.

NEW ENGLAND LIFE

NEW ENGLAND MUTUAL LIFE INSURANCE COMPANY: INDIVIDUAL AND GROUP LIFE INSURANCE, ANNUITIES AND PENSIONS, GROUP HEALTH COVERAGES.

These Stanford men are New England Life representatives:

D. Kenneth Elliott, '26, Los Angeles
Wm. Eugene Hays, CLU, '26, Gen. Agt., Boston
Rupert M. Adams, CLU, '29, Los Angeles
Patterson D. Nowell, '40, Los Angeles
William B. Jadden, CLU, '41, Los Angeles
Melvin P. Gundlach, '48, Los Angeles
Jack A. Martinelli, CLU, '48, Gen. Agt., San Francisco
Robert R. Teall, CLU, '48, Orlando
Earle L. Patten, CLU, '49, Agency Manager, Fresno
W. David Phillips, '49, Fresno
Robert D. Childs, CLU, '50, Santa Ana
Joseph F. Pickering, CLU, '50, Palo Alto
David G. Hoffman, CLU, '51, Menlo Park
Joseph M. Chez, '53, Sacramento
William E. Choate, CLU, '53, Los Angeles
John C. Kern, '55, San Francisco

Quotes From the Campus

Research, instead of coming last, should come first. It is particularly important for freshmen to be able to do their own independent research, to find out what discovery can be like, and to develop some of their own styles and interests in discovery . . . Students need to take a much more active part in their education. The student needs to become a teacher of himself, and he often teaches himself best by teaching others.—*Joseph Katz, visiting professor of philosophy*

A good many top managers express concern about how well they have communicated their theoretical positions to their colleagues—as well they might, for . . . managers at similar levels within the same organization often show quite different profiles. In some companies, it seems, the management team must resemble a medical clinic in which one doctor bases his diagnoses and prescriptions on the germ theory, another relies on the virus theories, and a third practices voodoo . . . American management may have popularized the standard operating procedure; apparently, it has by no means established any standard operating theory.—*Dale Yoder, professor of industrial relations*

Neo-fundamentalism [in the U.S. Department of Agriculture] tries to marshal the political support needed for central government control and supposedly scientifically accurate direction of a farm system which behaves like a single, effectively policed, compulsory super-cartel . . . They fool themselves if they believe they can administer Soviet medicine in much more acceptable doses. Their streamlined, feudal, and patriarchal creed undermines the West's greatest asset in the cold-war—our capacity to create abundant food supplies through freely operated farm enterprises.—*Karl Brandt, director, Food Research Institute*

Humility is an effort to see things as they are, including oneself.—*Philip H. Rhinelander, professor of philosophy*

We believe strongly that a master plan must be flexible—so that it can readily adjust to the new influences and new ideas that arise in a changing world. The changes can be the result of both external and internal factors. In the case of the University, the external factors might be freeways, dams, or other taking of University land for government use. The principal internal use certainly has been the dynamic growth in our own need for land for education and research. Planning results in the exercise of value judgments and it would be truly surprising if people were unanimous in their opinions on architecture, traffic, and some of the more controversial factors.—*Thomas W. Ford, director of land development*

The schools are creating a drop-out problem by insisting that a youngster stay in school and then organizing things in such a way that a certain percentage can't help but fail . . . Planning a curriculum to provide for a wide variety of human differences is vital if we are to achieve a higher standard of education.—*Dwight W. Allen, co-director of Standford's high school intern teacher training program*

The Campus Scene

(Continued from page 2)

trillionth of a centimeter). But beyond that nobody knows, so the result could change some of our fundamental concepts of matter.

The rings, baked 24 hours at 750° F to bring their hollow cores within one part of air per trillion of a perfect vacuum, and fastened together in the shape of a figure 8, will in effect become an electronic race track. Sent at each other from opposite directions at almost the speed of light, two streams of electrons fed in by Stanford's one billion electron volt (Bev) Mark III linear accelerator will provide an "equivalent energy" at collision of *1,000* Bev. The researchers hope they will then "see" as little as two-tenths of a fermi —and discover whether the theory remains valid at hyper-short distances.

The experiment, first envisioned five years ago by Prof. W. Carlisle Barber of Princeton, is being conducted at Stanford by a Princeton-Stanford team and financed by the Navy and Atomic Energy Commission. The team consists of Dr. Barber, his Princeton colleague Bernard Gittelman, Stanford physicists W. K. H. Panofsky and Burton Richter, and a strong backup force of engineers and technicians. They hope to be ready for the great electron collision this month.

Stanford on Radio and Television

SUNDAY MORNING services from Stanford Memorial Church are on the air. Beginning in late November, radio station KXKX, an FM station covering the Bay Area from Sacramento to Santa Rosa and down to Monterey, was to begin carrying the entire service, according to Chaplain Robert M. Minto.

On television, Stanford faculty members, Stanford Research Institute staffers, and alumni have been cooperating in the production of a new Sunday afternoon series called "The New Element" (KPIX, San Francisco, Sundays at 3 p.m., running through January). Fifth- and sixth-grade students from Palo Alto schools appear with a scientist and question him in a specific field. Opening program on Oct. 28, for example, had Dr. Terrence Rogers of Stanford's Physiology Department discussing "Physiology in the Space Age."

The series will utilize such SRI experts as Dr. Vincent Salmon of the Sonics Department (The Fascinating World of Sound), Ronald Collis (Radar and Weather), Doris Calloway and Richard Matthews (Food and Nutrition in the Space Age), Joel Brenner (Space Mathematics), Charles Rosen (Learning Machines), Warren Westphal (Earthquakes), and Bjorn Bergsnov-Hansen (*Continued on page 6*)

A Summer of Fun You'll Remember

GOLDEN DAYS AT STANFORD SIERRA CAMP

at Fallen Leaf Lake in the Tahoe country

Our General Manager: BRUNO HUMASTI

GUESTS' REMINDER LIST: BRING

1. Sheets; pillow slips; blankets or sleeping bags (mattresses and pillows furnished, but not linen)
2. Towels, hand and bath; soap; toilet articles
3. Sport clothes or jeans; sweaters and wraps
4. Flashlights
5. Musical instrument, camera, costume and ideas for Fun Night

AND REMEMBER

1. No dogs, cats, or other pets°
2. Check-in time, 3 p.m.
3. First meal, dinner at six

° You can get to know the resident squirrels

--Organized but *optional* recreation program: you can loaf if you like, or let off steam
--Papoose Playground for small youngsters
--Supervised *separate* programs for older children
--Clean, rough-hewn cabins; more comfort each year
--Sunshine, sparkling lakes and streams, forests and peaks a dozen miles from the bright lights
--Hiking, swimming, boating, water skiing, tennis, riding, fishing in smogless mountain air
--Stimulating friends and wonderful food
--Ice skating at Squaw Valley

Make Your Reservations Now to Be Sure of Space

(Stanford Alumni Association members get first choice on reservations made by January 31, 1963) and mail it to Stanford Camp Association, Bowman Alumni House, Stanford, Calif. (Reservations must be for one or more full weeks.)

First and Last Name | Relation | Class (or age) | University (if not Stanford)

.....

.....

.....

.....

.....

.....

No. of weeks.....Number of persons.....°Starting date: 1st choice.....2nd choice.....

°Starting time 3:00 p.m. each Saturday; the week ends 10:00 a.m. following Saturday

I enclose $2.00 for my membership in the Stanford Camp Association for 1963, plus a deposit of $..... (minimum deposit $10.00 per person per week, excepting infants). Balance due three full weeks before effective date of reservation. Cancellation refunds can be made only on written notice received at least 15 days before starting date; in any event, once space is confirmed, the minimum deposit is non-refundable.

Signed:.....

Address.....Zone.....City.....State.....

Camp opens June 15, closes September 3

BARGAIN LABOR DAY WEEKEND

10 Days—Aug. 24–Sept. 3

Adults (11 and over)	$92.50
Children 5 to 10	64.00
Children under 5	42.50

3 Days—Aug. 31–Sept. 3

Adults (11 and over)	$27.50
Children 5 to 10	19.00
Children under 5	12.50

WEEKLY SUMMER CAMP RATES

Adults (11 and over)	$65.00°
Children 5 to 10	45.00°
Children under 5	30.00°
Infants (in arms)	10.00

Check if you wish:
☐ Bath
☐ Single beds for adults

Private bathrooms $20 extra per bathroom per week

° Includes meals; sales tax extra

The Campus Scene

(Continued from page 4)

(Optics); plus Patrick Suppes of the Mathematics Department (The New Mathematics) and Herbert DeStaebler of the Stanford Linear Accelerator Center (Project M). Alumni working on the series are Fred Joslyn, '52, director; Lee Mendelson, '54, producer; Ray Hubbard, AM '52, program director; and Sheldon Fay, '59, photographer.

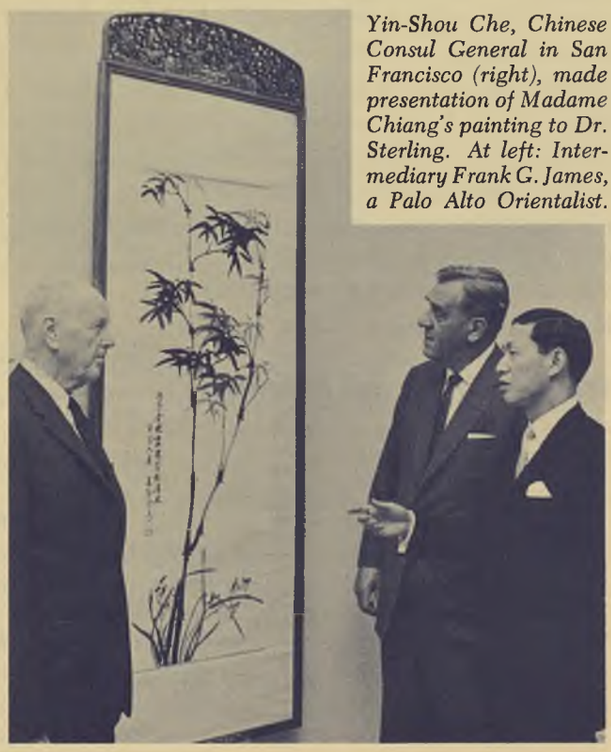
Intensive Training for Top Freshmen

A DOZEN special intensive-English sections—twice the previous number—have been provided for some 300 freshman students of high aptitude. Thus nearly a quarter of the class is taking this advanced course which, stressing collateral reading, will move from expository prose in the current quarter to imaginative literature in the spring.

"This is a course in reading, writing, and thinking," says Prof. Virgil K. Whitaker, head of the English Department. "Our standard for 'A' work is 'publishable prose.' By setting a high standard we feel we'll increase the motivation of good students."

Six of these 300 freshmen have also been selected for a special seminar in literary criticism and writing—a rare university offering at the first-year level—taught by Prof. Albert J. Guerard, distinguished novelist and critic.

Stanford began emphasizing special programs for students with high aptitude in 1955, and has recently begun to increase that emphasis. For example, in winter quarter the School of Engineering will institute a special series of lectures, by top faculty members, for freshmen and sophomores.



Yin-Shou Che, Chinese Consul General in San Francisco (right), made presentation of Madame Chiang's painting to Dr. Sterling. At left: Intermediary Frank G. James, a Palo Alto Orientalist.

MADAME CHIANG KAI-SHEK, an artist as well as a political figure, has presented an ink brush painting to Stanford—and its impressionistic message conveys a high compliment. Bamboo, symbol of a gentleman, is upright, sound, tall, and straight. It bends but does not break. The type depicted is hollow inside—or empty of self, having humility—implying the ability to receive from and understand others. The orchid spray stands for the penetrating quality of man's personality. The characters read: "Tall stalks move in clear wind, hidden fragrance embraces morning dew." This work is in the Chinese triple-art form; the artist begins with an idea to convey, transforms the idea into a painting, and completes the cycle with a word description representing both painting and original idea.

1963 Cap and Gown Calendar on Sale

APPROPRIATELY dedicated to Miss Edith Mirrielees, the 1963 Cap and Gown Calendar is full of early Stanfordiana. Pictures include David Starr Jordan swinging a baseball bat, Memorial Church before the 1906 'quake, newly planted trees along Palm Drive, and an early rooting section doing card stunts.

Shortly following her death last spring, the Cap and Gown Board elected to dedicate the calendar to Miss Mirrielees in recognition of her many services to the University and to the organization. She was a founding member of the honor society.

The recent format has been continued in the 1963 calendar. It is approximately 7 by 10 inches, and suitable for wall or desk. There is space for jotting appointments and memos.

Proceeds from the sale of the calendars support Cap and Gown–sponsored scholarships at Stanford. A price of $1.35 includes mailing charges. Orders may be made through Cap and Gown Society, Box 4484, Stanford.

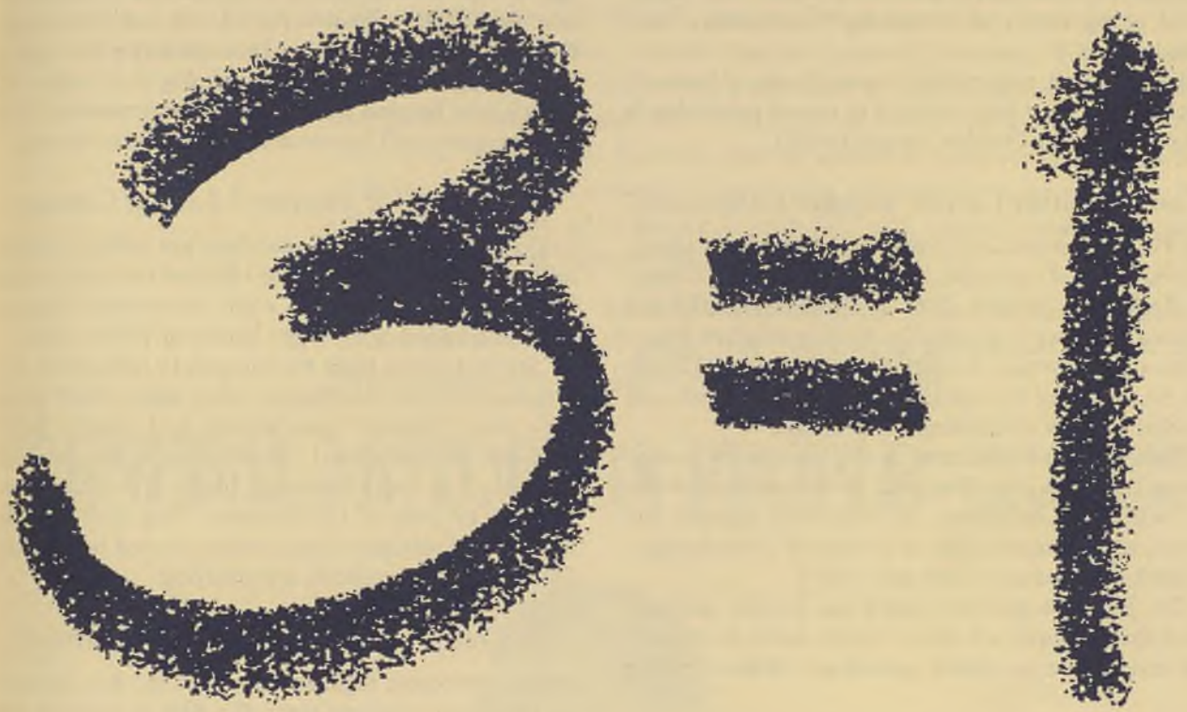
Satisfying Plateau for Terman Group

A SEGMENT of Dr. Lewis M. Terman's 1,500 gifted children—now in their mid-50s—has reached a very satisfying plateau in life, a survey by Dr. Helen Marshall, Stanford psychologist, reveals. She studied 163 of the gifted group—112 men, 51 women—who have reached the median age of 56 years. During the period 1940-1960 which she researched, two women and six men died. Survey highlights reveal that of the group:

Two-thirds of the men and three-fourths of the women now are college graduates; 21 men and one woman have professional degrees; Republicans outnumber Democrats two to one; both men and women indicate that their greatest satisfactions in life are derived from work, marriage, and children, in that order.

"The group is considerably above average in socio-economic status," she reports, adding that:

The group considers itself well above average in physical and in good *(Continued on page 8)*



This deceptively simple equation is the real reason why you enjoy the best and the most telephone service in the world at the lowest possible price.

It represents the relationship between three basic units that equal one unified Bell System.

1. Patient research and development by Bell Telephone Laboratories create constantly improved communications techniques. (Telstar is one recent example.)

2. Efficient manufacture by Western Electric delivers equipment you can depend on, day after day, year after year.

3. Skillful operation by 21 Bell Telephone Companies supplies service at a high standard of performance to families and farms, to industry and government.

The work of these units is closely coordinated by the American Telephone and Telegraph Company, advising and planning for the progress and efficiency of the entire system.

That's why we say, "Three equals one"—and why you can pick up your own telephone at home and talk to almost anyone else in all 50 states of the union or any of 167 foreign countries around the world—quickly and economically.

BELL TELEPHONE SYSTEM

Owned by more than two million Americans

The Campus Scene

(Continued from page 6)

mental health. Both sexes show a marked increase during the past 20 years in the number of hobbies, as well as in participation in service and club activity, religious, political, and organization affairs. Self-rating of the group shows an increasing trend toward conservatism.

Dr. Marshall, now retired, is one of several research psychologists who have assisted in one of psychology's oldest longitudinal studies, begun in 1921.

New Aphasia Center Begins Operation

THE WEST's first research program in childhood aphasia has commenced operation at Stanford Medical Center. Funds for the Scottish Rite Institute for Childhood Aphasia have been provided by the Scottish Rite Foundation of California. An initial contribution of $22,000 was made during the summer, and the foundation will donate funds for continuing the program.

Temporary headquarters is the renovated "nurses' cottage" at Palo Alto Hospital. Here members of the staff will study childhood, or congenital, aphasia (an aphasic child is one unable, as a result of brain damage, to speak or to learn to read and write).

Dr. Jon Eisenson has joined the faculty and will direct the institute's activities. He is a leading authority and investigator in speech pathology. Before coming to Stanford he was professor and director of the speech clinic at Queens College, New York, and a lecturer at the College of Physicians and Surgeons, Columbia University.

During the initial stage, two or three children up to age 13 will be accepted for diagnosis and evaluation at one time. The evaluation period may last from 3 to 10 days. Children will receive an examination by a pediatrician, a neurologist, and a psychologist, as well as by speech and hearing specialists. After screening, 10 to 15 youngsters will be selected for long-term training.

A Louder Student Voice

ALTHOUGH they had politely rejected student requests for committee representation as recently as spring quarter, last month the faculty members who constitute the Student Affairs and Services Committee reversed themselves and put out the welcome mat. President Sterling promptly appointed five students to the committee (from a panel of 10 submitted by ASSU President Armin Rosencranz).

Students have been represented on the Union and Athletic Boards for many years and have worked on others on an *ad hoc* basis, but full voting membership on this committee constitutes a major gain.

"In the last six months there has been an effort to find ways and means of providing student participation in a wider area," explained Dean of Students H. Donald Winbigler, intimating that students will be given representation on additional committees—but presumably this will be left to each group's discretion.

Very little has been heard, since the first few days of fall quarter, of the student campaign to legalize liquor on campus, lending credence to the theory that its sponsors were more interested in expanding student influence in University affairs than in consumption of alcohol. Indications are, however, that this increased influence would have been accorded in any event—perhaps sooner without the obfuscation of the liquor controversy.

Libraries for Stanford Living Groups

STANFORD LIBRARY staff members are aiding students in the establishment of house libraries in many student living groups. Already in eight dormitories, libraries are being added to the eight houses of Wilbur Hall.

Students have been encouraged to take almost full responsibility for the libraries—they select which books they want, prepare them for use, and operate the libraries once established. The University has provided space and, in many instances, funds. The libraries reflect the interests of the students. They include books of a general reference nature with selected books in the fields which the students are studying.

Progress Announced at PACE Dinners

THOSE ATTENDING regional dinners in the Bay Area and in Denver in October were the first to learn of new major contributions to the PACE Program.

In Denver, Joseph E. Cook Jr., regional chairman, announced two donations totaling more than $300,000: the first from Clarence C. West Jr., '27, retired vice-president of Continental Air Lines, and the second from the late Mrs. Helen Allabach Bannister. West's gift is an ownership share in his California ranch property near Porterville. Mrs. Bannister gave Stanford the bulk of her estate. The West gift will be used for the future benefit of the Graduate School of Business. The Bannister gift will be used to establish the Helen Allabach Bannister Fund. Her late husband, L. Ward Bannister, was a member of the Class of 1893. Their son, a member of the Class of '33, died in World War II.

The gift of Mr. and Mrs. Carroll J. Roush of Portola Valley was announced at the Bay Area Regional Dinners on Oct. 18. A pledge of $500,000, it will be used to establish a new endowed professorship in economics to be known as the Emma and Carroll Roush Professorship in Economics. President Sterling noted that the new professorship will enable Stanford to expand its instruction and research concerning the American economy and other economies which organize their resources through private enterprise. Roush is a transportation executive and educational philanthropist and has served as guest lecturer in transportation management at the Graduate School of Business. His eldest son, David, received an MBA in 1959.

DISCOVERER

He is a scientist. Dedicated, learned. He is inquisitive by nature. Exploring is his business. He's one of more than six hundred thousand GM men and women whose talents, skills and training combine to create, plan and produce superior products. You could find his counterpart at one of our great universities. You'll find him, however, at General Motors Research Laboratories, where he and his fellow scientists are engaged in two kinds of research—*basic* research, devoted to the advancement of scientific knowledge; and *applied* research, carrying out GM's tradition of constant product improvement.

The General Motors team also includes more than a million shareholders, plus the many thousands of people who work for suppliers and dealers. These, too, are important parts of GM's greatest asset—*people.*

GENERAL MOTORS IS PEOPLE ...MAKING BETTER THINGS FOR YOU

Faculty and Staff

Is the Grass Greener?

PEOPLE ARE often content with a selection made between two alternatives. They don't always believe the grass would have been greener had a different choice been made. So concludes Leon Festinger, professor of psychology, in an article on "cognitive dissonance" in the October issue of *Scientific American.*

Rather, say Dr. Festinger and his research associates, it hinges largely on how the choice was made. If the alternatives are approximately equal, the one selected becomes even more desirable after the choice is made (i.e., when a high school girl decides she wants one hit record even more than another one).

The "green grass" theory applies most readily to things which are unattainable or are made nearly so by stiff prohibitions. The unattainable remains more attractive.

If there is some prohibition, but this is relatively mild, the person convinces himself that the choice was really the one he wanted to make and downgrades the forbidden object—a "sour grapes" attitude.

Working with Professor Festinger on the psychological studies were Profs. Elliot Aronson of Minnesota and James M. Carlsmith of Yale and Stanford graduate student Jon D. Jecker.

War and Public Health

WAR ITSELF is a public health problem, Prof. Robert C. North of the Political Science Department told delegates to the American Public Health Association convention in October.

Fear is a psychological problem, he noted. And fears of various kinds—fear of physical injury, death, starvation, loss of economic status, power, or prestige—lie at the root of all violent conflicts, including war. As war is largely fear-induced, so war becomes a health problem, he added.

"The fears of a populace and the fears of its leadership may be different," he said, "but the various kinds of fear can reinforce each other or combine to produce war."

Dr. North, director of the Studies in International Conflict at Stanford, pointed out that in crises, even hard-boiled decision-makers "tend to be influenced far more by fear and other negative emotions than most of them ever realize." If these fears of the leadership are reinforced by anxieties and fears among their populations, then the possibilities of large-scale violent conflict sooner or later are likely to be extremely high—and without regard for the consequences.

Miss Scibird Retires

AFTER 40 YEARS as a member of the staff of the Stanford Library, Ruth Scibird has retired. She had long been curator of the Stanford Collection and an unfailing source of information about the history of the University.

Starting as an assistant in the Serials Division in 1922, she transferred to the Reference Division in 1924 and remained in that division and its successor, the Humanities and Social Sciences Division, until retirement. In 1951 her particular interest in the history of Stanford and the Stanford family was recognized by her appointment as curator of the growing collection in this field. She gradually gave up other duties to concentrate her many energies on this collection.

She worked closely with Stanford offices seeking information and with such writers as Miss Mirrielees in the preparation of books about the University.

Ruth Scibird

Leon Festinger

Professional Recognition

SEVERAL MEMBERS of the faculty have been selected to hold positions in organizations representing their special field of study. They include:

Robert J. Wert, vice-provost, who has been elected vice-chairman of the American Council of Education, the top non-governmental agency for colleges and universities. He is president of California's Coordinating Council for Higher Education.

Professor Arthur Kroeger, '31, MBA '33, of the Graduate School of Business, who has been re-elected district dean of the American Academy of Advertising.

Professor Evan Just, head of the Mineral Engineering Department in the School of Earth Sciences, who has been elected Western region vice-president of the Society of Mining Engineers.

Honors, also, for Prof. Lars V. Hormander, who will join the faculty next March as professor of mathematics. He has been awarded the Fields prize for research, "the nearest mathematical equivalent to the Nobel Prize." One of the world's leading mathematical analysts, he will be at Stanford the spring and summer quarters each year.

And for the History Department's Gordon A. Craig, one of America's experts on modern German history, an appointment as honorary professor of modern history at the Free University of Berlin.

System contractor: DYNA-SOAR

System integration: MINUTEMAN

Boeing 707 with Boeing-Vertol 107

New Boeing 727 short-range jetliner

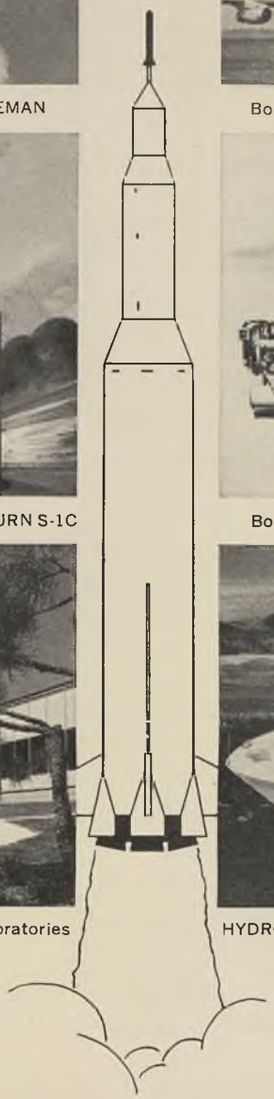
Space booster development: SATURN S-1C

Boeing turbines power helicopters

Boeing KC-135 jet tanker-transport

Boeing Scientific Research Laboratories

HYDROFOIL development, construction



CAREER BULLETIN FROM BOEING

The continuing expansion of advanced programs at Boeing offers outstanding career openings to graduates in engineering, scientific and management disciplines. At Boeing you'll find a professional climate conducive to deeply rewarding achievement and rapid advancement. You'll enjoy many advantages, including up-to-the-minute facilities, dynamic industry environment, and company-paid graduate study programs (Masters and Ph.D.).

For further information, write today to Mr. Conrad E. Brodie, The Boeing Company, P. O. Box 3822 - UST, Seattle 24, Washington. Boeing is an equal opportunity employer.

BOEING

OUR "346" DEPARTMENT
Brooks Brothers quality and taste
...at generally lower prices

Our popular "346" Department offers young businessmen an excellent opportunity to become acquainted with Brooks Brothers distinctive styling and quality at moderate prices. All our "346" suits, topcoats, sportwear and evening wear are made to our exacting specifications...on our own exclusive models...mostly of materials woven especially for us. The suits—made on our traditional 3-button, single-breasted model, feature our comfortable and correct natural shoulders, trousers without pleats, and matching vests...in sizes 36 to 46, including extra longs for the tall, slender man.

Our "346" Suits, $90 to $105 · Sport Jackets, $65 to $75
Topcoats, from $95 · Cotton Oxford Shirts, from $6

Prices slightly higher west of the Rockies.

ESTABLISHED 1818

Brooks Brothers
CLOTHING
Men's Furnishings, Hats & Shoes

201 POST ST., COR. GRANT AVE., SAN FRANCISCO 8, CAL.
727 WEST SEVENTH STREET, LOS ANGELES 17, CAL.
NEW YORK · BOSTON · PITTSBURGH · CHICAGO

The Stanford Family Forum

A Venezuelan Ambassador

THE APRIL ISSUE of the *Stanford Review* carried a very interesting article about "Stanford's Seven Ambassadors" which I enjoyed reading very much. However, there is one Stanford ambassador you did not mention—a close friend of my family, the late Enrique J. Aguerrevere of Venezuela [see "In Memoriam," page 46—ed.], who preceded by almost 10 years the first ambassador on your list.

His distinguished career included pioneer work with the first commercial oil producer in Venezuela, 1913 to 1917. He went to Stanford in 1917 and received his AB in civil engineering in 1919. Following that he went to Mexico with the Cities Service oil interests. After 11 years in Mexico and a few months in Europe he was sent home to Venezuela, still representing the same interests.

In 1936 he accepted the newly created post of Director of Hydrocarbons in the Ministry of Development, which handled all matters pertaining to the oil industry. In 1938 he was named Minister of Public Works and was probably the first Stanford graduate to become a member of the cabinet of a government south of the Rio Grande. He held that post until 1941 when the new president made him Minister of Development for nearly a year. He was then sent to Mexico as Minister in charge of the Legation. From Mexico he was sent as Ambassador to Ecuador in 1945. The following year he became Ambassador to Panama. He resigned this post after the *coup d'etat* in October of that year and returned to his private engineering practice in Caracas.

Mr. Aguerrevere was a member of several scientific societies in Venezuela and the United States. He served as head officer of the Colegio de Ingenieros de Venezuela, and the local branch of the American Society of Civil Engineers. During the last year of his life he served as president of the Academy of Physical Sciences and Mathematics of Venezuela. His activities were many and so were his friends, both at home and in the United States and Mexico.

NANCY ALDEN LUDGIN, '49
Wheaton, Ill.

Note: Prof. Graham Stuart's April article dealt only with U.S. ambassadors, but we are pleased to salute an alumnus who served a Good Neighbor.

...suddenly, new hope in life

A man lies on the operating table, crippled with the exhausting tremors of Parkinson's disease. The surgeon guides a slender tube deep inside the patient's brain until it reaches the target area. Then liquid nitrogen, at 320 degrees below zero F., is fed to the end of the tube. Suddenly the trembling stops. The unearthly cold kills the diseased cells . . . and a once desperate human being has been given a new chance in life. ▶ Medical reports have indicated that not only Parkinson's disease but also other disorders causing tremor or rigidity have responded to this new technique in brain surgery. The operation has been described as easier on the patients than previous surgery, and they have been able to leave the hospital in a surprisingly short time. Also, encouraging results are reported on the use of cryosurgery, as it is called, to destroy diseased cells in other parts of the body. ▶ Through its division, Linde Company, Union Carbide was called upon by medical scientists for help in designing and making equipment to deliver and control the critical cold required in this new surgery. This dramatic use of cryogenics, the science of cold, is an example of how research by the people of Union Carbide helps lead to a better tomorrow.

A HAND IN THINGS TO COME

For information describing the work in cryosurgery done at the Neurosurgical Department of St. Barnabas Hospital, New York, write to: Union Carbide Corporation, 270 Park Avenue, New York 17, N. Y. In Canada: Union Carbide Canada Limited, Toronto.

UNION CARBIDE

Challenging projects . . . assured security . . . growth and utilization of professional skills at . . .

AEROJET

Azusa, California

(25 miles east of Los Angeles)

Diversification offered to the engineer in the following activities:

SPACE PROPULSION DIVISION

Expanding programs on liquid propulsion systems of TITAN III and APOLLO.

ADVANCED RESEARCH DIVISION

Research in the life sciences, leading to the development of life support systems.

POWER/EQUIPMENT DIVISION

Current programs include the 30-kw SNAP-8 power conversion system.

STRUCTURAL MATERIALS DIVISION

Engaged in research, development and production of structural plastics.

NERVA OPERATIONS

Prime contractors for Nuclear Rocket Engine.

TORPEDO DIVISION

Challenging assignments on advanced torpedo and underwater weapons.

ASTRIONICS DIVISION

Largest integrated organization specializing in infrared and optical guidance systems.

CHEMICAL DIVISION

Largest in the Free World rocket industry in solid and liquid propellant technology.

MUST BE U.S. CITIZEN

For information write today to:

MR. R. S. LAWRENCE
6352 Irwindale Ave.
Azusa, California

AEROJET-GENERAL CORPORATION

A subsidiary of the General Tire & Rubber Co.

AN EQUAL OPPORTUNITY EMPLOYER

CLUB CALENDAR

Monday, Dec. 3

RIVERSIDE—Football Luncheon with Coach Jack Curtice as the speaker.

Wednesday, Dec. 5

EAST BAY MEN—Luncheon Meeting, 12:00 Noon, Peluso's—Alf E. Brandin, speaker; "Stanford-Big Business"

Saturday, Dec. 8

BOSTON—Big Game Movies—Jointly with University of California alumni; at the Harvard Club, from 3:00 p.m.

Tuesday, Dec. 11

PASADENA WOMEN-JUNIORS—Annual Christmas Party, home of Sue Shidler Bradford, 318 Arroyo Dr., South Pasadena, from 7:30 p.m.

Friday, Dec. 14

SOUTHERN CALIFORNIA JUNIORS—"Happy Hour" at Julie's, beginning at 5:30 p.m. Music by the Shooshan Nashville Nine—Minus ?.

Saturday, Dec. 15

SAN DIEGO—"Day at the Races" at the Caliente Race Track, Tijuana—beginning with a sparkling Burgundy cocktail hour at 11:30 a.m.; buffet luncheon at 12:30 p.m.

WASHINGTON, D.C.—Annual Christmas Party, at the home of Patty Burwell Cavin, '47, 1628 21st St., N.W.

Tuesday, Jan. 8

PASADENA WOMEN-JUNIORS—Business Meeting to prepare for the February Bridge Benefit—at home of Mary Ann Kenney Buck, '53, 2770 Lorain Rd., San Marino; 7:45 p.m.

Tuesday, Jan. 15

PALOS VERDES JUNIOR WOMEN—Second meeting of this new Stanford Club—to include showing of a Stanford movie. For further information contact Mrs. Robert H. Robinson, 5510 Bayridge Rd., Palos Verdes Estates.

1963 STANFORD CONFERENCE SCHEDULE

Stanford Clubs have formed committees and are preparing for the 1963 series of Stanford Conferences. To bring the program to as many alumni as possible, three new locations have been selected—Stockton, Napa, and Honolulu. Chicago and Denver re-join the schedule after a year's absence. Complete details will be given in the Winter ALUMNI ALMANAC, *but the dates are listed below for early planning. New calendars may be marked as soon as they are received!*

January 26—Fresno
January 27—Bakersfield
February 2—San Diego
February 3—Phoenix
February 16—Orange County
February 17—Los Angeles
March 2—Seattle
March 3—Portland
March 10—Sacramento
March 23—Honolulu
April 27—Chicago
April 28—Denver
May—Napa
May—Stockton

Late Spring—Campus

"Why I gave up a successful career at 40"

Stanley Newhouse, C.L.U.

"Even though I was an executive, I was still an employee," explains Mr. Newhouse. "What I really wanted was my own business."

"I had held various executive positions in big companies and enjoyed a fine income. Yet something was missing. None of these jobs gave me the deep satisfaction of running my own show . . . of profiting in direct proportion to my effort. I decided I'd look over the field and make a change.

"So, at the age of 40, I entered a totally new career, where I *would be* my own boss. And I found I could be successful, in terms of income, from the very start.

"But other rewards were equally important. I found in the life insurance business an amazing number of 'plusses'. I had to make no investment. There was no inventory, no plant and no labor problem. And, in addition, I had the privilege of doing business with people I *enjoy* doing business with.

"I picked Massachusetts Mutual as the company that offered me the very best opportunity. It has an outstanding reputation and its dynamic growth is reflected in the fact it now has 2.6 billion dollars in assets. Solid, yet progressive—that sounded like the right combination.

"In my first twelve months of actual work, I met my own goal of a million dollars in sales . . . and *I've done better than that ever since.*

"And our opportunities are steadily growing. U. S. families are being formed at the fastest sustained rate in history—parents are far more life insurance-conscious than ever before. Business firms, too, are discovering the tremendous value in the variety of uses for business life insurance.

"It's interesting to me to note that some men seem to think that it is a cinch to get into the life insurance business. This is not true of Massachusetts Mutual! Far more applicants are rejected than are accepted. Only after some searching examinations are individuals accepted for training by Massachusetts Mutual General Agents.

"Our business provides two kind of security: First, you receive a steady income from earlier policies which you have sold, as well as from new sales. Second, Massachusetts Mutual provides all of the so-called 'fringe' benefits offered by progressive firms today, including a fine retirement plan. Yet I am on my own—and it's an even better feeling than I had expected it would be.

"I work with people I like and respect. When I deal with a company, I work with its top executives. When a large estate is arranged, I deal not only with its owner—a man of substance—but with his attorney, his accountant and a bank trust officer. These business contacts often develop into warm personal friendships, as well.

"My favorite sports are hunting, fishing, and skiing—and I am able to indulge in them when I wish. But, I actually find more pleasure and satisfaction from my work. I never thought I could make *that* statement before I entered this field."

* * *

Over a hundred Massachusetts Mutual men are now *averaging* $30,000 income a year . . . which means that many make substantially more. In our entire sales force, men with 5 years or more experience are *averaging* close to $14,000.

Are you being held back by office politics or slow advancement? Do you feel chained to a desk? Does business travel keep taking you away from your family? Or—are you just plain bored with your work?

Would you like to be in business for yourself?

Would you like to switch to a new career—and *be paid while you are trained*?

If so, the President of Massachusetts Mutual would like you to write him a personal letter about yourself. Address: Charles H. Schaaff, President, Massachusetts Mutual Life Insurance Company, Springfield, Massachusetts.

This could be the most important step you have ever taken. Like that big step taken by Stan Newhouse.

IN LAB, OFFICE AND FIELD PG&E'ers BUILD AHEAD FOR BURGEONING CALIFORNIA

Satisfying California's appetite for gas and electricity is the never-ending task for the more than 18,000 PG&E'ers. It calls for constantly building new facilities . . . exploring new technologies . . . developing new methods . . . and employing the most advanced equipment.

CAREER OPPORTUNITIES: PG&E, the nation's largest energy utility, offers careers in many fields, and interesting day-to-day challenges. Engineers and business grads alike can achieve managerial positions. Come in and talk with us at 245 Market Street, San Francisco or any Division Headquarters.

PG and E
Pacific Gas and Electric Company

CHEMIST Carl Stromberg injects gas into a chromatograph to determine its specific gravity and heating value. Carl is a member of the Engineering Research team responsible for many experiments and discoveries.

NUCLEAR ENGINEER Jim Schuyler (right) discusses Humboldt Bay Nuclear Power Plant with C. C. Whelchel, Chief Mech. Engr. A graduate in electrical engineering, Jim trained in the nuclear field at PG&E and planned much of the Humboldt Plant.

COMMERCIAL REPRESENTATIVE Harry Irwin (right) checks construction progress on a new Marin County school with Ray Luoma, foreman for the building contractor. Harry's work brings him in constant contact with businessmen, too, helping them to make the best use of the Company's services.

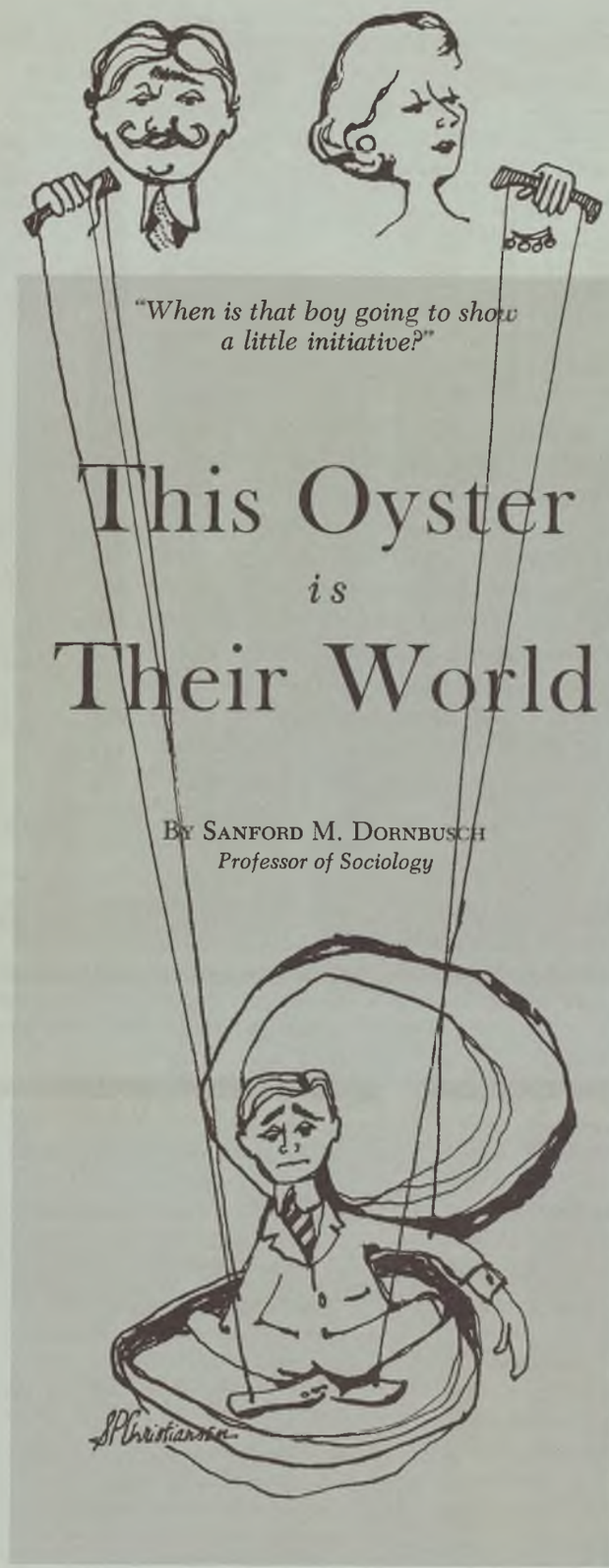
PHOTO TAKEN IN 1875 BY EADWEARD J. MUYBRIDGE

TASTE OF A MILLIONAIRE

A TELEVISION PROGRAM WRITTEN AND PRODUCED BY RAY HUBBARD, '52

Nob Hill's massive Victorian castles of a bygone era, and the people who lived in them, are hard to visualize today. But now another legacy from Leland and Jane Stanford, who built one of the largest, most lavishly appointed mansions obliterated by the 1906 'quake, affords a peek into San Francisco's past. Scores of pictures taken for them by noted 19th century photographer E. J. Muybridge have nested safely in the Stanford Museum for over half a century.

Ray Hubbard, '52, TV station program director, wrote and produced a half-hour documentary based on these old photos (aired last month on KPIX's San Francisco Pageant *series). Muybridge's fragile glass-plate negatives, painstakingly transferred to motion picture film, give viewers the illusion of gliding personally through room after luxurious room—and a brief glimpse of what millions once deemed the proper symbols of American upward mobility.*



"When is that boy going to show a little initiative?"

This Oyster *is* Their World

By Sanford M. Dornbusch
Professor of Sociology

My two children are nine and five, still a little young for Stanford, but the years are speeding by. As I look at my children, particularly after they've gone to sleep, I can sense the age-old sentiment of the continuity of generations. An anthropologist recently reported that members of an African tribe, asked what was the greatest happiness in life, answered, "To live to see your grandchildren." Although in a youth-centered culture like our own there are pains connected with growing old, here also there is profound joy associated with the persistence of life and of our part in the pageant of mankind.

When our children enter Stanford University, the happiness to be brought by our grandchildren is not uppermost in our minds. Entrance to college does represent a major shift in the orientation of our children to us. They are beginning to be independent. The household is surprisingly quiet, and patterns of love and authority must have a slightly different foundation. When the child is born, that bawling, puking infant seems so completely our own creation. As he grows and learns, much of his socialization stems from our teaching and our example. But gradually, through adolescence, there is a yearning for independence from the parents who have nurtured him. In general, regardless of our desires, the student will find in the university community further occasions to loosen hitherto sacred ties.

After college, most of these children will set up separate households. They will be expected to make their own decisions . . . only coming home for help when independence has brought more problems than pleasures. Although most parents are convinced that their children cannot possibly do without them, they have to adjust to these societal expectations. Like it or not, the child whom we put in disposable diapers is forced to dispose of his parental guides. And he is no more willing to accept university administrators as surrogate parents.

From this developmental point of view, the period of attendance at a university represents a time of transition and experimentation on the part of the student. The university has a license to practice isolation from the mainstream of the society.

One purpose of this isolation is to permit the student to try out various identities and attempt to discover which self he prefers. The future prime minister of Great Britain plants a chamber pot on the top of the flagpole; the boy who organizes a laundry route at Stanford later becomes a President of the United States. One girl on a date acts the dumb bunny while another is haughtily intellectual. One pickets for peace while another struggles to understand nuclear structure. To the student there is no limit to his learning. He may learn more about himself from his peers than from his professors, more in dormitories than in classrooms, more from novels than from textbooks. But learn he will.

All this has been most theoretical. We have said, essentially, that students learn the darndest things in the darndest ways as they move from teen-age irresponsibility to adult status.

Let us now turn our attention to the complex implications of that simple statement for this transitional period when the student attends a university. The following thoughts are based on no research whatsoever. They represent future official policy only for my own family on those rare occasions when my wife will agree with me.

The students who come to Stanford are oriented toward getting high grades. They have learned to discover the meaning of true-false questions so that they can give the approved answers, and they can parrot the teacher's opinions in their essays. They have developed confidence in themselves as good students, and this is an important part of their self-conception. After they reach Stanford they suddenly become aware of the presence of a thousand other excellent students. When they get their first grades, most of them experience at least a minor shock. They can react in many ways. Whether they become disciples of the cult of the Gentleman's C or give up all non-academic activities in order to study harder, they are still reflecting the notion that grades are a terribly important measure of individual worth. By so doing, they are reinforcing a pattern of behavior which we taught them in elementary and secondary schools.

Actually grades at Stanford have little qualitative meaning. The average grade today is the same as the average 20 years ago, while the level of academic preparation and commitment is much higher. An A or B in a Stanford course means that the student is floating on top of the cream. There is very little milk in the bottle. The C here is equivalent to an A at some other institutions—which shall be nameless. If every one of our students worked twice as hard and learned twice as much, there would be no difference in the typical grade. All that an A or B refers to is a competitive position that is a means of ranking students.

As a professor I would be traitorous were I to ask parents and students to ignore grades. Let me instead be just a *little* bit subversive. Fewer than two percent of our freshmen flunk out. Almost all of our applicants for graduate and professional schools are accepted by first class institutions. If a student is confident of doing *fairly* well, it is unlikely that the best investment of additional energy is in worrying about or preparing for those barnacles on the academic ship known as tests.

The best direction of effort is toward self-testing. The brilliant student might find it advisable to spend more time on religion, politics, dating and skiing—not necessarily in that order. The BMOC in high school is not exploring the world when he stays in the same groove of extracurricular emphasis at Stanford. I would evaluate the worth of an activity, not in terms of its content *per se,* but in its relation to past behavior. Persisting in behavior which continually brings easy success can be a device for evading the problems and possibilities of new life-enhancing pursuits. This transitional period at Stanford is the time to try—and often to fail.

STANFORD REVIEW

Many readers will recall Sandy Dornbusch, executive head of Stanford's Sociology Department, from his two recent appearances on the TV program "Meet the Professor" (where he drew a larger audience reaction than any other participant). His lecture "Popular Religion" was a key offering of the 1961 Stanford Conference Program. "This Oyster is Their World," from the fall issue of the student literary magazine Sequoia, *last month was also presented as a Parents Day talk. The author extends his thanks "for the help of my friends John D. Black, Donald T. Carlson, Michele Vandersyde, Lynne Garlow, Katherine Bowman, and Barbara F. Dornbusch."*

College years should be years of excitement, experimentation, self-realization, and change. We can best create this atmosphere by being supportive. Students will be cowardly if their elders are critical. Self-confidence is related to risk-taking. We can make a major contribution by providing a background of warmth and approval in which their errors do not produce fear or blame. In my own research on self-conception, I have been impressed by the extent to which self-confidence is correlated with favorable evaluations by others who are important in the life of the student.

From this point of view, switching majors and changing boyfriends should not be disquieting. All of us have a tendency to applaud the student who knows where he is going and steadfastly plods toward his target. But his persistence may be a sign of excessive caution. Early choices may be immature, and we are wrong to make a virtue of sticking to an early decision. Students are not junior adults.

May I devote a minute to the special issue of vocational emphasis in college? Faculty members and parents constantly ask students what they want to do, and "do" refers specifically to the means by which bread will be earned. But most occupational choices are based on childish notions. I remember my first year in college when our counselors advised us to avoid engineering, a field terribly overcrowded. To be an engineer was to invite starvation. In hindsight, I am glad I did not make that choice, but their assumptions were remarkably inaccurate. Today we are likely to be just as inept in influencing the choice of a career. The closest process I know is the selection of a mate, and you know how welcome advice is on that topic!

Early choices may be immature, and we are wrong to make a virtue of sticking to an early decision.

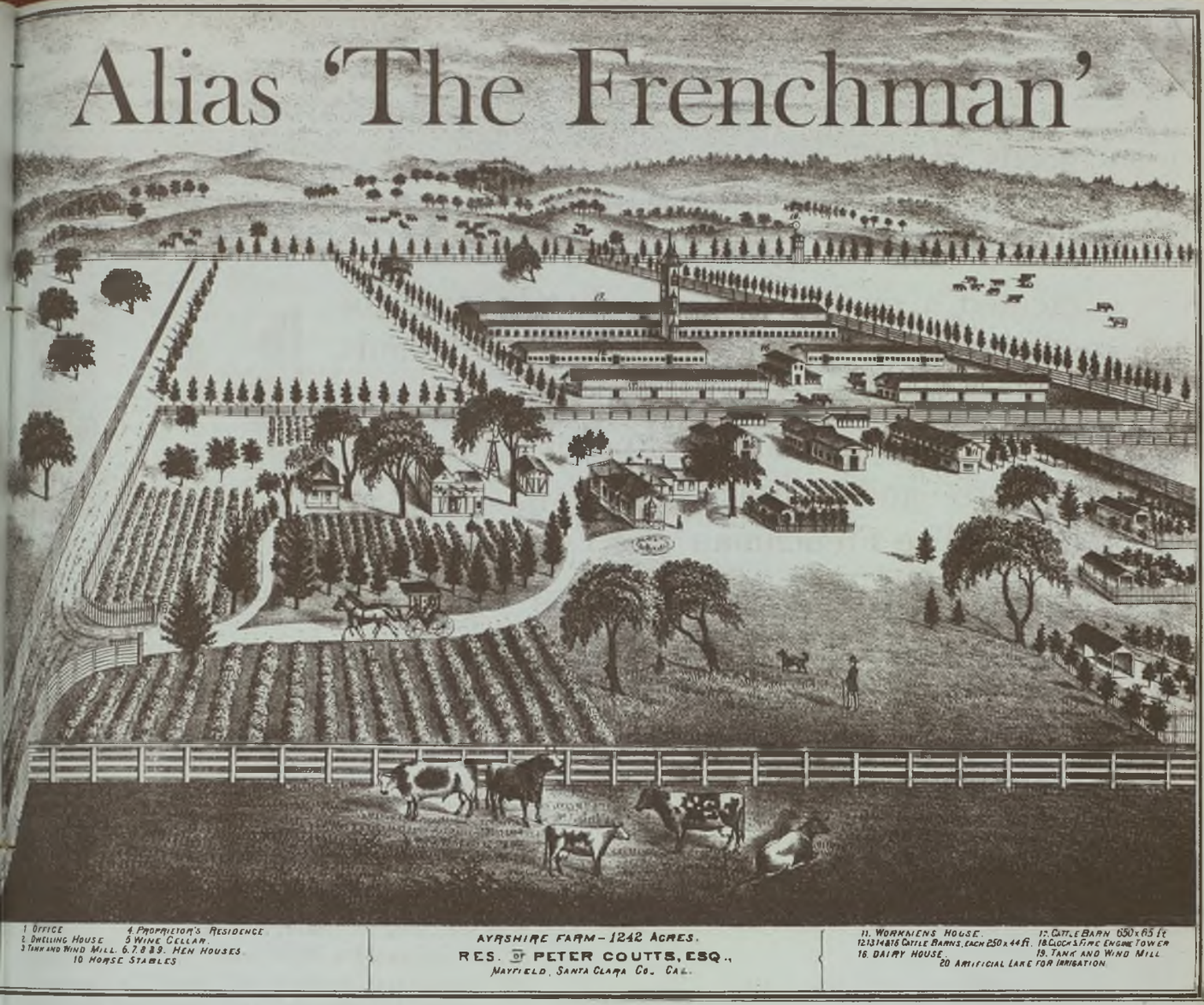
WHEN I WAS a boy, a hundred years ago, I looked up at the sky every time a plane passed. Now, I barely stir to look for an earth satellite. The world changes, and we change with it. And never has the pace of change been so swift.

One of my teachers, Robert Redfield, observed that respect for elders is a function of slow social change. Wisdom is a product of solving recurrent problems. In the primitive society, where the rhythm of life persists relatively unchanged from generation to generation, the children can always see the elders as guides and models, but respect for age is not a particularly American characteristic. Elders are not seen as wise, but as old fogeys or creeps or squares, depending on the age of the child. This is not too surprising when one considers how the changing American scene has made obsolete so many of the behavior patterns which were employed under earlier conditions.

It is both ludicrous and sad that some parents complain that their children return from college questioning some of the patterns of behavior which they formerly accepted without comment. It would be more appropriate to complain when the student is unaffected by his college environment. After all, today's college student is going to be a participant in the life of the 21st century. It is difficult to predict in this mad world, but certainly today's behavior will be anachronistic tomorrow. To compound the error, the universities are the source of most of the ideas which are revolutionizing man's way of life. If that dynamic component were ever to stand pat, then parents would really have a basis for dissatisfaction. Our best product is a questioning student, a creative student, no matter how upsetting he is to his teachers and parents.

As the world changes, so has Stanford changed. This produces added problems for those students who are blessed with parents who are alumni. Their parents may think they know how to be a proper Stanford man or woman, so that the student has a lot more advice to ignore. For example, an increasing proportion of male students choose not to join fraternities. Stanford *(Continued on page 35)*

Alias 'The Frenchman'


1 OFFICE
2 DWELLING HOUSE
3 TANK AND WIND MILL
4 PROPRIETOR'S RESIDENCE
5 WINE CELLAR
6.7.8.9. HEN HOUSES
10 HORSE STABLES
AYRSHIRE FARM – 1242 ACRES.
RES. OF PETER COUTTS, ESQ.,
MAYFIELD, SANTA CLARA CO. CAL.
11. WORKMENS HOUSE
12.13.14.&15 CATTLE BARNS, EACH 250 x 44 ft.
16. DAIRY HOUSE
17. CATTLE BARN 650 x 65 ft
18. CLOCK & FIRE ENGINE TOWER
19. TANK AND WIND MILL
20 ARTIFICIAL LAKE FOR IRRIGATION

HE CALLED himself Peter Coutts. His Mayfield neighbors called him "The Frenchman." They also called him crazy, and a crook, and his aristocratic aloofness contributed to the myth building; mystery is the mother of fabrication. But the native peasantry had a genuine fondness for the taciturn immigrant. After all, he was very rich, spent large sums with refreshing frequency, and a man with that much money couldn't be all bad. So they went on embroidering his image while making a rather good thing out of selling him land,

goods, and services. He didn't seem to mind. Arriving in 1875, within a year and a half he had purchased 1,400 acres for $108,000 and created a model farm on what became the southerly 15 percent of the Stanford lands. Within seven years he was gone forever, leaving a legend that still persists: romantic, obscure—and entirely false. Well, *almost* entirely. The Frenchman *was* French.

Old water tower still stands

FIRST OF ALL, his name wasn't Peter Coutts, but Jean Baptiste Paulin Caperon. He had borrowed the identity of a dead cousin because he was indeed on the lam—for largely political reasons.

Coutts-Caperon did have a lot of money, but it was his own—and he intended to keep it that way. He was not, as one story had it, a French Army paymaster who had skipped with $5 million. Scion of a wealthy family, he used his inheritance to enter a career in banking. He was a success at it.

He did put his Mayfield property in the name of his children's governess, Eugenie Clogenson—but not until 1879, when he was probably thinking about going back to France in an attempt to put his affairs in order. It was ordinary prudence to safeguard his American holdings before he went.

He did bore a network of tunnels under the hills on his land, but not as a place to cache stolen treasure, or as a line of defense against his enemies, or as a place to hide or through which to escape. He was searching for water, French style.

He did build a brick tower at the upper limit of his property (on Page Mill Road), but not as a fortress in which to make a last stand. Its mundane function was to house a water tank.

His wife and daughter did remain in seclusion, but not because they were insane or feeble minded. They were ill. When they arrived the little girl was five years old, and she had only nine more years to live. (His son was not granted long life either; a fall from a horse killed him when he was 33. He left two small daughters.)

He did receive a visit from the French Consul in San Francisco in 1880, but the consul didn't come down to put the arm on him; more likely he came to say the coast was clear back in France, possibly in response to a query by Coutts-Caperon himself.

He did not perish with his family in the tunnel under Pine Hill, nor did he vanish into thin air. He went back to France and resumed his former place in society, under his real name.

He did go to Europe in 1880, but he didn't flee

Few of the Frenchman's works remain. We still have the Page Mill water tower, and the scenic bridge at the corner of Gerona and Frenchman's Roads—but the artificial lake around it was drained in 1922, and the great cave facing it (under Pine Hill) bulldozed shut at the close of World War II. His residence (No. 4 on drawing—see preceding page), its second story added after he left, is now the office for Escondido Village, and the small house next to it (2) is a nursery school. The Tower House (not then built) provides research space. Barns, bunkhouse, and other ancillary buildings were moved or torn down long ago.

The only place where people still live is the Hacienda, and the Frenchman would never recognize it. Its core was his dairy house where he produced 2½ to 4 tons of butter a month. Successive additions transformed it into a faculty and staff apartment house.

The drawing depicts the Frenchman's farm from a vantage point within what is now Escondido Village (married student housing), looking toward Pine Hill where faculty dwellings now stand. The dirt road (left) became Stanford Ave. Escondido Road follows the line of the fence separating residence area from barns, leading toward Wilbur Hall and Main Library. Man with cane, hat, and dog (right foreground) may have been meant to represent Coutts-Caperon himself.

out the back door in the dead of night, leaving his children's toys scattered on the floor. This was the trip undertaken to settle his affairs in his homeland. He was successful. He came back, operated his farm a while longer, and did not depart for good until 1882. When he and his family left, they went openly and in the normal way, taking their personal possessions with them—including his collection of books from the press of the Dutch Elzevirs worth perhaps a million francs. He also took the state and county fair trophies won by his fine cattle. (When his granddaughter immigrated to this country with her new AEF husband, Charles Berlin, after World War I, she brought them back; she has them now, at her home in San Rafael.)

And Leland Stanford did not just pre-empt the Ayreshire Farm property when the Frenchman "disappeared." He bought it, for $140,000. The deal was closed in London, on Nov. 7, 1882.

SO THE TRUTH about the Frenchman turns out, as it usually does, to be much less romantic than the legend. Until he was 50 years old he was a respected and respectable French banker who took an active interest in politics. But at this point two things, in combination with the Franco-Prussian War, got him into trouble.

Shortly before the war Caperon had affiliated his bank with a Swiss organization and, acting on its instructions, had sunk 5 million francs into a venture in Alsace-Lorraine. Of course Prussia took Alsace-Lorraine away from France, and the money was lost. Although this had been an organizational venture, he was personally liable for the loss.

He also had been opposed to the war. As owner and publisher of the newspaper *La Liberté* he had often been highly critical of Napoleon III and his policies. In the strife and recrimination of defeat this made him highly vulnerable, and his lovely world fell apart. He decided to get out and start over somewhere else, and managed to take his family and a large part of his fortune with him.

Settling in Mayfield, he turned his Ayreshire Farm into one of the finest in all of California. He built the complex of buildings shown in the drawing on page 21, later adding the Tower House across what is now Escondido Road from his own residence; a classical scholar, he needed a facility to protect his large library from fire, since most of his other buildings were constructed of wood.

He planned also to *(Continued on page 34)*

The elegant chateau the Frenchman planned for the slopes of Pine Hill was finally built—in France, at Evian-les-Bains. It now belongs to the city of Evian. But the climate was too cold for his young daughter, and almost immediately they moved to Bordeaux. The little girl died soon afterward, at the age of 14. Coutts-Caperon died there six years later, in 1890.

THIS PRESENTATION is based largely on the research of a student from England, Geoffrey Bilson, who is doing graduate work in history. He became interested in the subject through Graduate Dean Albert H. Bowker, who lives in the Hacienda—the core of which is the dairy house where the Frenchman's butter was churned.

DONALD B. TRESIDDER
Stanford's Fourth President

The TRESID

The FOURTH MEMORIAL

Jordan Hall, Branner Hall, Wilbur Hall, and now —the Tresidder Union as the physical memorial to our fourth President.

The Trustees decreed it should be ". . . a part of the informal educational program . . . to present a cultural, recreational and intellectual program for the whole campus."

This concept fits perfectly the words and work of a man who, to use Matthew Arnold's phrase, ". . . saw life steadily and saw it whole." Let me illustrate by quoting from a personal letter he wrote a student, who shared it with Dan Endsley–and with me.

"Do you remember Nock's comments regarding

...DER MEMORIAL UNION

...text and additional pictures on next page

the two kinds of knowledge? One is gained from a study of people and the experiences of 'living dangerously and upon the hour.'

"There are two kinds of learning—both essential to a rich and complete understanding . . . the first is gained by a study of books. The field is as wide as all the libraries in the world. College, lamentably enough, is largely concerned with this kind of learning. Then there is the learning that comes from observation and study of people in their environment. It is richly rewarding, too often neglected.

"How do we combat the isolation of college life? I just don't know. We are living in one of the most crucial periods in history. I get appalled by the petty concerns of our university community . . . I can only conclude that a university must wage constant battle against apathy and isolationism. The results are bitterly disappointing but they'd be worse yet if we ceased to struggle.

"An awareness of the issues of the day, some grasp of the historical past and implications for the future, a feeling for people and an understanding of them—these are the ingredients of an exciting, rewarding life, as I see it . . ."

These are the words of the whole man of whom Parmer Fuller said: "We have known a man whose goodness was never smug, whose humility was never servile, whose simplicity was never common. We have known a man, and we are proud."

We are proud of his *memorial* too.

David S Jacobson

GENERAL SECRETARY

DIRECTOR Chester A. Berry is one of the reasons Tresidder Memorial Union has already become a main campus intellectual center. He doesn't downgrade the importance of the "service station" functions on the lower floor at all, because human beings need bread as well as inspiration. But a special gleam enters his eyes when he talks about the cultural curiosity continuously in evidence on the second floor.

That's where meeting and conference rooms and activities offices are located. Perhaps what goes on there can best be demonstrated by listing the *formal* program for just one typical week (to which, for an accurate idea of total traffic, add a heavy measure of individual browsing plus numerous bull sessions and specialized meetings):

Monday—Lecture, "The Social Responsibility of Business" by Harry Rathbun.

Tuesday—Illustrated lecture, "Shakespeare's Stage in the American Theater" by Wendell Cole.

Wednesday—Lecture, "Freud versus the Art Critics: an Analysis of Leonardo Da Vinci" by Robert Sears; also three Renaissance films.

Thursday—Lecture, "Macbeth" by Virgil Whitaker.

Saturday—"Operation Deepfreeze" art show opens.

Berry says the policy is to make money downstairs and spend it upstairs; that is, to provide funds for culture with profits from hamburgers and haircuts. There is a large cafeteria, a store, travel service, barbershop, and bowling alley.

Stanford has taken many shafts about that 14-lane bowling alley with the latest in automatic pinsetters and other appointments as well as billiard and ping-pong tables. Its cost *was* high; what critics overlook is that the function it serves is so popular that it will be a major source of support for the cultural program as well as a fine recreation facility for students and faculty.

Planning and hard work created Tresidder Memorial Union, but a lot of hope went into it too. No one could know for sure, in advance, that this kind of facility and program, obviously *needed,* would also be *wanted.* But it seems that it is.

Mary Curry Tresidder, widow of Stanford's fourth president, heard Dr. Sterling dedicate building which honors her husband's memory. With her are David S. Jacobson, General Secretary, who wrote tribute on preceding page, and Chester A. Berry, director of Tresidder Memorial Union. Photos above are of courtyard on Bowman Alumni House side, and part of main meeting room on upper level. Photo on page 25 shows "Post Office" side.

Alumni Newsmakers

Los Angeles officials recently presented Oscar Trippet, '25, JD '27, with a scroll for his accomplishments as head of the Hollywood Bowl Association for 1962. Trippet and the Association were praised for the installation of moving sidewalks at the Bowl, reinstituting children's concerts, and bringing the Mexico City "Folklorico" to Los Angeles. The Southern California attorney, active in a number of civic groups, has been named to serve a second term as Association president. He also has been elected president of the board of directors of the Braille Institute.

Moving up to a newly-created position of vice-president in charge of finance at Pacific Gas and Electric Co. is Kenneth C. Christensen, '30. Formerly vice-president and treasurer, he will continue as chairman of the pension and savings fund plan committee. With PG&E since 1930, he has been in the treasurer's department since 1942 and a vice-president since 1938. He has long been active in alumni affairs – has served as chairman of his Class of 1930 Reunion and on the board of governors of Stanford Associates.

For his many years of working in behalf of the Pakhtuns and their efforts to obtain full independence, Dr. Aurang Shah, '22, received Afghanistan's highest non-military decoration, the Stor, 2nd degree, from the Afghanistan ambassador to the U.S. at a recent banquet in Sacramento. Dr. Shah, president of the Azad Pakhtunistan Association of America, has brought the plight of his native Pakhtunistan before the United Nations and has traveled and spoken extensively in behalf of the area. He practices medicine in Sacramento.

New president of the Fireman's Fund Insurance Co., San Francisco, is Fred H. Merrill, '28. He succeeds Stanford Trustee James F. Crafts, who remains as chairman of the board and chief executive officer. Merrill joined the company as financial secretary in 1944 and was elected a vice-president in 1947 and executive vice-president in 1959. He is a member of the board of directors.

A member of the board of directors since June, Dudley Swim, '26, MBA '28, was elected chairman of the board of National Airlines at the group's July meeting. Widely recognized for his accomplishments in corporate guidance, he has more than 25 years' experience in the transportation field. For five years he was a director of Western Airlines and he has served as a director of three railroads. The former Alumni Association president (1951–52) serves on a number of other corporation boards.

With 14 patents to his credit, Dr. David Frazier, PhD '45, senior research associate in the research department of Standard Oil Co. of Ohio, is frequently called upon to present reports at scientific gatherings. One of his most recent papers, "A Statistical Effect in Heterogeneous Catalysis," was prepared for the annual meeting of the American Chemical Society in September. With Sohio since 1946, his research work has included basic studies in the field of statistical and computational techniques as applied to problems in chemical and physical research, the development of new separation processes, and fundamental work on the oxidation of hydrocarbons.

Dr. Theodore H. Maiman, MS '51, PhD '55, president of Korad Corp., Santa Monica, has been presented with the Stuart-Ballantine Medal of the Franklin Institute of Philadelphia. He was honored for his development of the first pulsed maser operating in the optical region of the electromagnetic spectrum. Recipient of the same medal was Professor Arthur L. Schawlow of Stanford's Physics Department, who was recognized, along with Dr. Charles H. Townes of MIT, for a "brilliant concept" of a completely solid-state three-level maser operating in the optical region.

An award rarely presented to a junior officer—the Army Commendation Medal—has been given to 2nd Lt. Clyde W. Wyant Jr., '60, in recognition of his achievements in pioneering instructional programs for the Army's new Davy Crockett gun. The 23-year-old officer is one of a handful of Army personnel qualified to teach firing techniques of the Davy Croc-

kett—he is an instructor in the weapons department of the arms division at Ft. Knox.

A MOVE TOWARD the future opening of a West Coast office of the American Management Association was the appointment of William R. Willard, '33, to the executive staff in New York to begin a program for broadening activities in the West. He resigned as director of organization planning at Columbia - Geneva Steel in San Francisco to accept the new appointment. He has participated actively in the general management division of AMA and has served as a leader of orientation seminars on organization planning and control.

NEW GENERAL PARTNER in Hornblower & Weeks, New York brokerage and investment banking firm, is C. Austin Barker, '34. He is a recognized authority on stock market trends, stock splits, and stock dividends. With Cleveland Electric Illuminating Co. for a number of years, he joined Hornblower & Weeks as economist and director of research in 1959. He is a past president of the Stanford Club of Cleveland.

THERE'S MORE than a tinge of Stanford Red around the glistening black olives that come from Lindsay, California! No less than nine Stanford alumni are closely and actively associated with the operation of the Lindsay Ripe Olive Co., world's largest grower and packer of ripe olives.

On the grower-cooperative's board of directors are Robert Montgomery, '31, vice-president, Lawrence Mason, '32, and Howard Baker, AM '29. Richard W. Henderson, '33, is general manager and Maxwell King Jr., '49, is the firm's secretary and assistant general manager.

Acting in important consulting roles to Lindsay are Tom W. Cordry, '33, assisting in pension and insurance plans; Robert Baxter, '33, vice-president of Lindsay's Northern California food broker organization; and Gordon Steedman, '34, and Tom Cooper, '31, principals in Lindsay's advertising agency.

LECTURES have been the standard procedure for "educating" groups of youngsters making an art gallery tour. But Charles Lindstrom, '32, and his wife Miriam, curators at the de Young Museum in San Francisco, realized this wouldn't work for a recent Chinese Art Treasures Exhibition. The figures were small in scale and every youngster would have had his nose to the glass. So they initiated a "first," a slide-lecture series. Schools borrowed the tape-recorded lectures and slides before the youngsters were to visit the museum and the children came prepared to understand what they were seeing. The Lindstroms were delighted with the response, and hope to develop a library of tapes important to school curricula. They point out that there is almost no academic subject that isn't related to something in the museum.

THEODORE R. HAZELTINE, '25, a partner in The Chester Engineers, Pittsburgh, told a recent meeting of the Pennsylvania Water Pollution Control Association that the training and educating of operators of sewage plants must be a major project. He pointed out that many well-designed plants don't work well because of faulty operation and noted that certification of plant operators is one answer. "The important thing about mandatory certification is the benefit to the health and the pocketbook that will result," he declared.

FIRST AMERICAN to become a British colonial official in North Borneo is Ronald G. Russell, '54. As a district officer he supervises more than 2,000 square miles of territory and several thousand natives from his headquarters at Tenom, a village in the Crocker Mountains. Russell, 29, came to the island under a public service fellowship from the Maxwell Center at Syracuse University.

LONG ACTIVE as Los Angeles County air pollution control officer, Smith Griswold, '32, AM '34, has been elected president of the Air Pollution Control Association. The association is comprised of some 2600 individual organizations. Griswold is the first president who is not an engineer.

THE RECIPIENT of a PhD in English from the University of California at Los Angeles in June, Ann Stanford White, '38, has joined the faculty of San Fernando Valley State College as an assistant professor of English. A poet, her work has received national acclaim. She recently received the Borestone Mountain Poetry Award for *Pandora,* which has been published in *Best Poems of 1960*—one of the many honors for her poetry to date. While studying for her doctorate she taught at UCLA. She's also completed the manuscript for a book of poetry titled *The Weathercock* and is regular poetry editor of the *Los Angeles Times.*

THE ADVERTISING MAN is not a "flashy, tricky, huckster intent on bamboozling the public"—claims Robert R. Gros, '35, vice-president of the Pacific Gas and Electric Co. Speaking before a recent Conference on Consumer Protection in California he came strongly to the defense of the industry. The advertising man has taught us "how to lead a better life and contributed enormously to our tastes, high standards, and general social improvement," said Gros. He added that advertising is practiced out in the open for all to see and that shady or misleading advertising destroys its perpetrators.

Stanford Books and Authors

Steinbeck: A Prophet Without Honor

Forty or fifty years ago young Juanito Steinbeck inspected his considerable navel, decided it would do, and, perhaps banefully influenced by a happy childhood, dismissed it forever from his contemplations.

This juvenile error he compounded by cultivating a strange archaic style which conveyed exactly what he meant in clear pear-shaped tones. Thus, in the heedlessness of youth, he casually blew his chances for recognition as a major American novelist.

John Steinbeck

After all, how could anyone who didn't hate his father, who loved his mother only as a mother, who battled his siblings with joy rather than hate, who failed scandalously to develop any paranoiac complexes, who continues to attack injustice in the antique assumption that a man is never the prisoner of his environment until he surrenders to it—how could such a well-adjusted commentator possibly contribute significantly to human understanding? Even if he had the requisite umbilical entanglements to flourish, how, with his persistent lucidity, could he muster the necessary tortured incoherence?

Of course he couldn't. As the *New York Times* pointed out editorially when a little band of wilful men in Stockholm awarded Steinbeck the 1962 Nobel Prize in Literature, their decision raises "questions about the mechanics of selection and how close the Nobel committee is to the main currents of American writing."

To be fair one must consider the possibility that the committee *did* inspect these "main currents," and forthwith got as far away from them as possible. This view gains credibility from a small flaw in *Times* editorial omniscience; hardly had the great newspaper disposed of Steinbeck, by ruling that all his major work was produced more than two decades ago, than the Stockholm deviationists affirmed that his recent *The Winter of Our Discontent* had clinched the award.

The choice of Steinbeck, who never in his life attempted to write anything on seven levels of consciousness, was met by varying degrees of unenthusiasm—at Stanford as elsewhere. A member of the English faculty told the local newspaper that Steinbeck's work has value for those of limited perspicacity, but that readers who already sympathize with those "whose birthrights have been stolen" may find that Steinbeck "shows them very little which they have not seen before," and that his work "does not see into its subjects at least as deeply as they have already seen."

It may be that some of the critic's colleagues do not completely agree with him, but none has been disturbed enough about it to speak up. If a campus champion had emerged he might have suggested, first, that Steinbeck's work could have something to do with how deeply these subjects are now understood; and second, that we have only the word of those who claim better vision that they even yet see all Steinbeck offers.

He might also have argued that Hemingway, for all his magnificent technique, wrote primarily about *himself* and what *he* felt; that Faulkner, for all his superb insight into human motivation, wrote in a style that required a great deal of effort by his readers, to say the least; and that Steinbeck, if not quite the equal of Hemingway in technique or of Faulkner in empathy, combines a superior order of both.

Steinbeck studied here off and on (1918 to 1925). He didn't graduate. Perhaps he won fame in spite of, not because of any guidance given him here. But one wishes Stanford had been a bit more gracious about the honor accorded one of her stepsons. Knocking an authentic major leaguer on the day of his inauguration at Cooperstown could be considered just a bit bush.

Steinbecks they're not, but two Stanford alumni of more recent vintage have won fame with what might be called political thrillers. Allen Drury, '40, a former Washington correspondent, has been at the top of the best seller list for several weeks with *A Shade of Difference*, a sequel to *Advise and Consent*. Eugene (Bud) Burdick, '41, a political scientist at the University of California and co-author of *The Ugly American*, is moving up the list with *Fail-Safe* (again with a co-author, Harvey Wheeler), and will probably take over the top spot when Drury is through with it.

The suggestion that they are not Steinbecks means that they are more interested in issues than in their people, and use the form of the novel as the most effective and financially attractive means of promoting their views. *The Grapes of Wrath* was concerned with issues too, but above all it was a story about people who remain vivid in memory after 20 years; thus it was a novel, not a political thriller.

Spy thrillers such as Ian Fleming's have long been publishers' staples, but Drury and Burdick aim higher, taking the reader into the top levels of government—and they excel at it, too. Although their stories occur several years in the future, some of their characters resemble currently active public figures, and many of their events and issues are equally familiar.

They go beyond Fleming's James Bond escapades in another way too. Both *(Continued on page 33)*

A SHADE OF DIFFERENCE: By Allen Drury, '40; Doubleday, New York, 1962; 603 pp.

FAIL-SAFE: By Eugene Burdick, '41 (with Harvey Wheeler); McGraw-Hill, New York, 1962; 286 pp.

Gift Suggestions from

STANFORD UNIVERSITY PRESS

PEARL HARBOR: WARNING AND DECISION

Roberta Wohlstetter

"The best book by far on the question of why we were surprised at Pearl Harbor." —Samuel Eliot Morison. "Lucidly and excitingly written . . . One of those rare specimens in the literature of current history, the definitive book."—*The New York Times.* "Surely one of 1962's outstanding books."—*Baltimore Sun.* "The best book by far that has been published on the question of 'blame' for the disaster at Pearl Harbor."—*Los Angeles Examiner.* "Brilliant." —*Kansas City Star.* $7.50

THE ANCIENT MAYA

Third Edition

Sylvanus G. Morley
Revised by George W. Brainerd

"An artistic and historic feast, and an education that makes learning a delight."—*New York World-Telegram and Sun.* "The art work is superlative. . . . For the plates alone it is a book eminently worth having." —*The Historian.* "Together the text and illustrations form one of the most readable classics of archaeological literature."—*Scientific American.* Over 200 photographs, maps, and drawings. $10.00

THE COMPLETE WORKS OF MONTAIGNE

Essays, Travel Journal, Letters

Translated by Donald M. Frame

"Magnificent . . . A more adequate idea of Montaigne's manner, his straight and unpretentious style, than any of the half dozen previous English versions."—*The New Republic.* "A beautiful volume."—*Renaissance News.* "A matter for rejoicing." — *The New York Times.* "Beautifully printed and bound."—*The Dalhousie Review.* "Magnificent translation."—Cyril Connolly, *The Times* (London). De Luxe Edition, 1120 pages, illustrated endpapers. $12.50

TALES OF SAN FRANCISCO

Samuel Dickson

Three volumes in one. "Contains 72 stories of the most unforgettable people in this city's history. . . . You'll feel as if you know San Francisco's past as well as you know your own community after reading this book."—*Deseret News* (Salt Lake City). "Delightful."—*Washington Post.* "This is the jackpot for those who love San Francisco."—*Seattle Post-Intelligencer.* "A handsome volume."—*Boston Herald.* "Dickson writes entertainingly . . . Many colorful tales."—*Chicago Tribune.* "Very readable." —*Cleveland Plain Dealer.* $6.95

NATIVE ARTS OF THE PACIFIC NORTHWEST

"One of the most beautiful books ever published on the Pacific Coast."—*San Francisco News.* "Likely to find a niche in collectors' most highly-valued shelf of art treasures." —*Nashville Tennessean.* "Singularly beautiful."—*Capital Times* (Madison). "It is seldom that an important book is as attractive as *Native Arts of the Pacific Northwest.*" —*Canadian Historical Review.* "100 pages of excellently printed photographic illustrations, many in color."—*San Francisco Chronicle.* "Beautiful." — *Scientific American.* $10.00

JAPANESE COURT POETRY

Robert H. Brower and Earl Miner

"It is impossible to write with restraint of this monumental study of eight centuries of Japanese poetry, a monument of scholarship and critical appreciation. . . . Anyone who loves literature can read it with delight."—*Literature East and West.* "The translations surely rank among the most effective ever made of the *tanka.*"—*Harvard Journal of Asiatic Studies.* "A splendid book. The text is well written and informative; the translations are often poetic; and the book is beautifully produced."— *Prairie Schooner.* $8.75

Order from your bookstore, please

Gift Suggestions from
STANFORD UNIVERSITY PRESS

THE ART OF FALCONRY

Frederick II of Hohenstaufen

"Of great value . . . to everyone interested in the history of science and in medieval art and letters. The Stanford University Press is to be congratulated upon the format of the volume; it is definitely a book collector's item, to be displayed with pride."—*American Scientist.* "Special mention must be made of the 186 beautiful plates that constitute a regular iconography of falconry."—*Bulletin of the History of Medicine.* "Lavishly illustrated."—*Quarterly Review of Biology.* $17.50

THE ELECTRIC INTERURBAN RAILWAYS IN AMERICA

George W. Hilton and John F. Due

"All seekers after nostalgia will be interested in parts of this encyclopedic volume on the days when the clang, clang of the trolley was the most exciting travel sound the suburbs knew. . . . 16 pages of photographs."—*Harper's.* "[Includes] a lovingly amassed and beautifully reproduced collection of photographs of streetcars."—*The Nation.* "The almost perfect book of its kind, a book that no rail fan can live without."—*Richmond Times-Dispatch.* $9.50

ILLUSTRATED FLORA OF THE PACIFIC STATES

LeRoy Abrams and Roxana S. Ferris

"The only book of wild flowers, trees, shrubs, and ferns ever written for the Pacific Coast area to contain pictures of all the plants found in this region. The keys are excellent, the descriptions concise and simpler than in many other books; the drawings are beautifully done and accurate in every detail. . . . This book will save its users so much time and effort that every owner will soon come to consider it a most inexpensive book."—*The Naturalist.*

Four Volumes, $70.00

SEA SHELLS OF TROPICAL WEST AMERICA

A. Myra Keen

"A model of planning, ingenuity, and hard work. . . . The illustrations are exceptional for their detail and clarity. Of the 1,650 species described, some 1,500 are illustrated with nearly 3,000 views. The 10 color plates are masterpieces of color and perfection."—*Central California Sportsman.* "Because it is written in non-technical language, it will be sought after by amateurs."—*Natural History Magazine.* "Extremely useful and authoritative."—*Science.* $12.50

DESERT WILDLIFE

Edmund C. Jaeger

"Fascinating reading. . . . The book, with its wealth of information, its many stories of Dr. Jaeger's personal experiences with the desert dwellers, and its numerous photographs and drawings would be an ideal companion for a desert trip."—*Los Angeles Examiner.* "An exciting series of intimate natural history sketches."—*San Francisco Chronicle.* "Probably the most complete—and certainly the most handy—book on the subject."—*Pasadena Independent Star-News.* $5.95

BETWEEN PACIFIC TIDES

Third Edition, Revised

Edward F. Ricketts and Jack Calvin
Revised by Joel W. Hedgpeth

"For the present generation, and probably the next, of beginning marine biology students and amateurs of the tidepools, Ricketts and Calvin is *the* book so far as the Pacific Coast is concerned."—*Pacific Discovery.* "Keeps the original style, beauty, and usefulness of the first two editions."—*The Naturalist.* "The perfect companion for anyone planning a beach holiday at any time of the year."—*San Francisco Chronicle.* $8.75

Order from your bookstore, please

WE
TIP OUR HAT
TO

BROOKS
BROTHERS

Because, after 144 years of leadership based on quality, workmanship and conservative good taste, they still refuse to be panicked by every fashion meteor that flashes across the sky.

Yet they will experiment constructively (and pioneer) in tomorrow's classics . . . as they did last year, for example, with the two-button suit (in advance of men's fashion editors "discovering" this style in Washington, we might add).

And because they place such a high premium on retaining old friends . . . as witness their keeping yesterday's undergraduates informed through the

AMERICAN ALUMNI MAGAZINES

California Monthly
Oregon Stater
Old Oregon
Southern California Alumni Review
Stanford Review
UCLA Alumni Magazine

Total Combined Circulation
Over 167,500

For full information write or phone Birge Kinne, 22 Washington Sq. North New York 11, N.Y. GRamercy 5-2039

When the Polls Closed:

Two of three alumni candidates for governorships, two of three for the U.S. Senate, and the lone candidate for statewide office in California were victorious in the November elections.

Senator Carl Hayden, '00, already a 50-year veteran in Congress, will again represent Arizona as he has since it was admitted to statehood. A Democrat, he is chairman of the Appropriations Committee. Frank Church, '46, LLB '50, won a second term to the U.S. Senate from Idaho. He also is a Democrat.

Governors Mark Hatfield, AM '48, and Paul Fannin, '32, won re-election to the governorships of Oregon and Arizona respectively. Both are Republicans.

California State Controller Alan Cranston, '36, ran at the top of the Democratic ticket, winning re-election by more than 1,200,000 votes. He will be joined in Sacramento by a large number of alumni in the legislature.

The California delegation to the U.S. House of Representatives now will include three alumni. Congressman Charles Teague, '31, LLB '34, will be joined by W. Donlon Edwards, '36, of San Jose and Burt L. Talcott, '42, LLB '48, of Salinas. Teague and Talcott are Republicans; Edwards a Democrat.

And veteran Congresswoman Edith Starrett Green, Gr. '44, again will represent Oregon's 3rd District.

State Senators who were elected include Joseph A. Rattigan, LLB '47, Santa Rosa Democrat, and Eugene G. Nisbet, '24, of Upland, a former member of the Assembly and a Democrat.

Eight of the ten candidates for the Assembly were victorious. They are Pearce Young, '47, AM '49—D—Napa (5th District); Nicholas Petris, LLB '49—D-Inc.—Oakland (15th District); Milton Marks, '41—R-Inc.—San Francisco (21st District); George W. Milias, AM '50—R—Gilroy (22nd District); Burt M. Henson, '50, AM '52—D—Ventura (37th District); Robert S. Stevens, '39, LLB '42—R—Los Angeles (60th District); Robert E. Badham, '51—R—Costa Mesa (71st District); and Victor V. Veysey, Gr. '40—R—Brawley (75th District).

Have a carefree vacation . . .

we'll "mind the store!" Ask about our Agency Service.

THE BANK OF CALIFORNIA
NATIONAL ASSOCIATION
OFFICES IN
CALIFORNIA OREGON
AND WASHINGTON

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

Books and Authors

(Continued from page 29)

have strong beliefs they push actively: one, that liberal flexibility poses a threat to our security; the other, that conservative rigidity poses a threat to our existence—and both are correct when permitted to supply their own definitions. If things turn out other than as predicted they can always claim it was because they sounded the alarm in time.

If transferring today's events to the future seems unreal at times because it implies no change in a society that changes every day, it can be defended on the ground that all thrillers presuppose a suspension of disbelief by the reader.

Drury's sequel to *Advise and Consent* lacks the punch of its predecessor; he may not know quite as much about the United Nations as he does about the U.S. Senate. His theme involving a UN motion to censure the U.S. for its racial discrimination is conceivable—but not as he depicts it. And even if it were, his resolution (through a character resembling the late Robert A. Taft!) is so far out that most readers will find themselves rooting for the reactionaries.

Burdick deals with the Strategic Air Command, which sends planeloads of hydrogen bombs streaking toward Russia at each alert (to forestall sneak destruction of retaliatory capacity). At a point called fail-safe the SAC bombers must commit themselves to attack or return to base. *Fail-Safe* makes a story of what might happen if, during a false alert, a bomber squadron failed to get the message and jetted on toward Moscow.

Pentagon sources claim the book misrepresents fail-safe; that crews return automatically unless they get a *positive* go-ahead by *voice* radio. Burdick defends his plot and argues that nuclear war is certain without some form of controlled, guaranteed disarmament.

Here again, even if Burdick is right, his resolution is hard to accept: that any American President would atomize New York without warning to show our Moscow strike was an "accident."

Whether or not things are quite as depicted, both books are useful as well as interesting; they deal with subjects commanding the attention and serious consideration of us all. —*Dan Endsley*

HERE IS THE GOLDEN GATE: By Neill C. Wilson, '12; William Morrow, New York, 1962; 236 pp., index.

THE SMALL GAP which admits the Pacific to San Francisco Bay was named the Golden Gate by John Charles Fremont. Neill Wilson in telling its story, which begins long before *(Continued on next page)*

BUSINESS AND PROFESSIONAL DIRECTORY

SHEARSON, HAMMILL & CO.

Founded 1902
Members New York Stock Exchange and other leading Stock Exchanges

SANTA BARBARA
1007 Anacapa Street • Woodland 5-8571

FRANCIS B. MANCHESTER '26, *Resident Manager*

Complete Brokerage Facilities • Professional Investment Management Service

---

"SERGENERAL"

A limited company of
COLOMBIA-SOUTH AMERICA
PROPERTY MANAGEMENT
INTERNATIONAL TRADE COUNSELORS
Commerce and Industry Studies
Tax and Exchange Problems
U.S. residents receive important U.S. tax exemptions on Colombian realty holdings.
Inquiries invited.
Bank References in California, New York, South America

Air Mail Box 1561 — Cali, Colombia
Cables: "Sergeneral — Cali"

FRED W. PEARMAN '34
Partner and Manager

LEVISON BROTHERS

General Insurance Brokers

Providing Our Clients Analytical and Objective Insurance Service

Robert M. Levison, '21
Robert M. Levison, Jr., '48
Douglas M. Heller, '53, M.B.A. '57

233 Sansome St. **San Francisco 4**
GArfield 1-4221

Palo Alto Transfer and Storage Company

AGENT ALLIED VAN LINES, INC.
Serving Stanford since 1902

J. D. FESSIO, '34
Vice-President Sales and Service

Palo Alto	Sunnyvale
151 Homer Ave.	360 E. Evelyn Ave.
DA 5-0061	RE 9-4700

SERVICES FOR EVALUATION, DEVELOPMENT, AND UTILIZATION OF NATURAL RESOURCES

Carroll Bradberry & Associates
CONSULTING ENGINEERS
LOS ALTOS • CALIFORNIA

Land–Water–Petroleum–Minerals

BUICK—
or RAMBLER—
ANYONE?

"BONES" HAMILTON
5747 Van Nuys Blvd. TRiangle 3-1177
VAN NUYS STate 5-7423

Edwin C. Porter, '43 William F. Hooper, '44

PORTER-HOOPER & CO.

Insurance Brokers and Consultants

204 S. Beverly Drive **Beverly Hills, California**
Crestview 5-4329 **Bradshaw 2-2714**

Parsons Optical LABORATORIES

- dispensing opticians BILL GREEN '47
- contact lenses DAN BROWER X '27
- surgical and diagnostic instruments

SAN FRANCISCO—STANFORD—SAN MATEO

Jack Beach, '35 Ainslie Bell, '48

BEACH, CHURCH & BELL

Petroleum Exploration

3120 Eighteenth St. FAirview 7-3021
Bakersfield, California

AZEVEDO BROS.
Jewelers to Stanford Men & Women since 1936
DIAMONDS—WATCHES—SILVERWARE
Graduate Gemologist 1958
Stanford Charms & Crests
Suite 321, Shreve Bldg.
210 Post St. San Francisco 8
M. Arthur Azevedo, '34
Certified in Diamond Grading and Evaluation by the Gemological Institute of America

---

JOHN LEAHY ASSOCIATES

Consultants for Estate, Business and Employee Benefit Plans. Agents for Life and Disability Insurance and Annuities

1730 Kearney Street **San Francisco 11**
YUkon 2-0626

WALTER H. LEVISON, '24

GEM CONSULTANT & APPRAISER

Special Order Work

Estate Jewelry Bought, Sold, and Appraised **210 Post St. San Francisco 8 (DOuglas 2-4752)**

RICHARD L. PARKER, '52

NATURAL GAS CONSULTANT

Vaughn Bldg. **Amarillo, Texas**

MARK TUBAN INC.

Authorized Ford Dealer
YOrkshire 7-6911

S. '55 **111 El Camino Real, Mt. View**

Antique Stanfordiana

Where the Rolling Foothills Rise, published in 1919. Nostalgic Stanford color scenes, poetry and historical sketch. A thoughtful alumni Christmas gift. All new, but copies limited. $4 postpaid in U.S. Check with order payable to Red Rocker, P.O. Box 2523, Stanford.

How To Organize
A Music Department for A Church
By Nona Stein Moffatt, AM '49
Exposition Press
386 Park Ave., So., New York 16 N.Y.
Price—$3.50

SCHOOL DIRECTORY

SCHOOLS FOR BOYS

MENLO School & College

TWO MILES NORTH OF STANFORD
WILLIAM E. KRATT, President — Member of California Association of Independent Schools

SCHOOL
College preparatory for grades 7 through 12. Day and boarding department for all boys.

COLLEGE DIVISION
Freshman and sophomore college years, in preparation for upper division college and university work.

SCHOOL OF BUSINESS ADMINISTRATION
Four year college, offering courses which lead to the degree of Bachelor of Science in Business Administration.

College Summer Session

FOR CATALOGUE AND FULL INFORMATION, WRITE OR PHONE:
Director of Admissions, Menlo School & College, Menlo Park, Calif.

The Robert Louis Stevenson School

"On the Seventeen Mile Drive"
PEBBLE BEACH, CALIFORNIA
College Preparatory
Grades 7–12
ROBERT U. RICKLEFS, '31, Headmaster
Box 110 — Pebble Beach, California

COEDUCATIONAL SCHOOLS

THE ORME SCHOOL

ON THE QUARTER CIRCLE V BAR RANCH
(Coeducational—Grades 7 through 12)

Thorough college preparation at a fine school located in the heart of Arizona on a 40,000 acre working cattle ranch. Accredited. Training in good study habits. All students prepared for College Board Examinations. Skillful supervision and intelligent home training. Horse for each student and ranch chores. Character development and training in leadership emphasized. Ideal climate for outdoor life. Cultural advantages. Team sports. Participation in cattle round-ups.

SUMMER CAMP
Eight weeks featuring extensive horseback experience for each camper with riding each day for all and a motor caravan through the scenic Southwest. Large swimming pool, tennis, crafts, camper rodeo and gymkhana. Tutoring.

MAYER, ARIZONA
Minna Vrang Orme '16 — Charles H. Orme '16
Charles H. Orme, Jr. '41

WILKINS PRIVATE HIGH SCHOOL

Accredited
Preparatory to California, Stanford, and all Colleges using the accredited system.
Preparation for college board exams, West Point, Annapolis—Coeducational Summer School Classes.
RUTH WILKINS RAYMOND, Principal
FIllmore 6-5906
3636 Washington Street — San Francisco

San Rafael MILITARY ACADEMY

Founded 1890
Thirty minutes from San Francisco in beautiful Marin County
College Preparatory — Church Affiliated
Fully Accredited
An Episcopal boarding and day school for boys of all faiths. Grades 7–12. Small classes. Exceptional science facilities. Olympic length, heated swimming pool. Individual and team sports. Ski trips.
Non-military summer sessions: Grades 5–12
For information write The Rev. Sumner Walters
B.A., M.A. (Stanford '49); Ph.D. (Oxon.)
or: Mr. A. C. Agnew, Jr. (Stanford '40)
Business Administrator

SCHOOLS FOR GIRLS

THE BISHOP'S SCHOOL

Upon the Scripps Foundation
LA JOLLA, CALIFORNIA
A RESIDENT AND DAY SCHOOL FOR GIRLS
Intermediate and Upper School Work
Prepares for Eastern and Western Colleges
ART MUSIC DRAMATICS
Write to Director of Admissions

CASTILLEJA SCHOOL

Founded by Mary Lockey, '02, in 1907
A Day and Resident School for Girls
GRADES 7–12
Accredited to Both Eastern & Western Universities
Member of California Association of Independent Secondary Schools
Margarita Espinosa, '27, Principal
PALO ALTO — CALIFORNIA

CRYSTAL SPRINGS SCHOOL

A Day School for Girls. Grades 7 through 12. College Preparatory courses only. Advanced Placement Programs for superior students. Junior Scholastic Aptitude Test required for Admission.
Adele Strogen, B.S. Boston University, M.A. Columbia University, Graduate Study Stanford University, Assistant Dean of Women Stanford (1947–57)
Headmistress
281 Sierra Drive — Phone DI 2-4175
HILLSBOROUGH, CALIFORNIA

man discovered the elusive entrance to the now famous harbor, presents a vivid word picture of the area.

Weather, people, ships, the spanning with a bridge—Wilson relates all to the Golden Gate and its history in a story not of San Francisco and its personalities, but of the water and the water's edge.

Wilson, a resident of Sebastopol, has written six other books plus many articles and stories. —*Kay Daley*

WHERE THE HEART IS: By Elizabeth Borton de Trevino, '25; Doubleday, New York, 1962; 286 pp.

AS AN AMERICAN married to a Mexican national Elizabeth Borton de Trevino has grown to love her adopted country. She writes with warmth and humor of life with her husband and two sons, and of Mamacita, her mother-in-law.

I wish I had read the book before my trip to Mexico last summer. The tourist may discover many of the things she points out, but understanding can come much more rapidly with this kind of background to Mexican culture, tradition, and way of doing things.

Mrs. Trevino earlier wrote *My Heart Lies South,* and has had two novels and several juveniles published. —*K. D.*

Alias 'The Frenchman'

(Continued from page 23)

build a fine chateau on the slopes of Pine Hill. But he remained first of all a Frenchman, and when the opportunity came to return home under favorable conditions, home he went; the chateau was built in Evian-les-Bains.

David Starr Jordan lived for two years in Coutts-Caperon's residence when the University opened its doors. He named it Escondite Cottage (meaning "hidden"; purists later pointed out that Escondido was more in keeping with the area's Spanish heritage, and the change was made). Something about the Frenchman's story brought out the pixy in Dr. Jordan and, with Olympian disdain for facts, he added to the misinformation with yarn after yarn. So did others; it was a popular (and relatively harmless) sport.

The Frenchman probably would not have resented this. He heard some of the wild stories current before he left the area and, perhaps inwardly amused, made no effort to correct the record. He was dead by the time Stanford University opened, and may never have heard that his land would be put to such use. But as a scholar and republican citizen he surely would have approved.

This Oyster is Their World

(*Continued from page 20*)

has long been dissatisfied with some aspects of fraternity experience, but it is only recently that students, faculty, and administration have taken steps to make Stanford fraternities more representative of what life at a university should be. In this period of redefinition for the fraternities, the wise parent will allow his son to make his own decision about affiliation on the basis of his own up-to-date evaluation of the situation.

With respect to dating, the helpful parent will again recognize that support is better than criticism or anxiety. What an increasingly complicated business! The girls are outnumbered, many of the boys do not date, there is a new emphasis on "going steady," the upper classmen attempt to capture the "frosh dollies," and there seems no correlation between the frequency of dating and the development of lasting relationships. Here again, the students are attempting to find their own answers. They will seldom welcome our interference. I often think that one of the reasons my wife and I got married was the opposition of both sets of parents.

A THIRD AREA of change affects one of my favorite topics, girls. Our entering girls usually have great social skills. They can talk about nothing with great facility, while boys are silent with great intensity. But this smooth outer behavior may mask major problems of identity. In the United States, females can become glamor girls, housewives and mothers, or career women. The problem of the comely coed is age, for wrinkles are bound to arrive. The wife and mother role is a fulltime job while there are children underfoot, but the average American woman has her last child at 26. When she is 32, the school acts as babysitter for most of the day, and she is left to ask again, "What shall I do with the rest of my life?" As to the career woman, her problem is the omnipresent "Why aren't you married?"

Stanford has no special curriculum for girls. Neither dishwashing nor household management are approved courses. Our girls have to combine roles to fit into a future world we can hardly imagine. Each coed is a unique combination, and her ideal self is related to her family background, her image of marriage, the values of her potential husband, and her individual aspirations. The best Stanford can do for her is to give her the broadest possible education, so that she is as free as possible to determine her own future. The parent or faculty member who is upset when a sweet young thing decides to be a mechanical engineer or mathematician should keep his mouth shut. At least our girls should have the freedom to make their own mistakes in a changing society. Let's not make their mistakes for them.

Fathers, at least in happy households, want their daughters to be like Mother, but daughter will live in a different period. Stanford is a men's university attended by some women. If this is a man's world, Stanford is a good place for the girls to learn how to run it.

THINKING OVER what I've said, I'm afraid it smacks of smugness. Parents and university might mistakenly be thought of as wiser and better than these fumbling adolescents who are allowed a few brief years to attain full development of their powers and capacities. I don't mean this at all. I believe that every adult who does not admit he has many serious deficiencies is an obnoxious prig.

On the average, college students show as much zest, idealism, creativity, and spontaneity as their teachers or parents. At least they are still searching for meaning in their lives, while many of us have given up. Indeed, we *can* learn from them. Our main contribution is to create an environment with diverse opportunities for growth. Stanford is a big school and a great one, and that size and quality provide a variety of potential experiences. Let us as parents, teachers, and administrators help our students to teach themselves.

CAP AND GOWN
1963 Stanford Calendar

Early Stanfordiana in rarely seen photographs by Berton Crandall. Dedicated to Miss Edith Mirrielees.

7" x 10"—suitable for wall or desk—with space for jotting down dates.

Proceeds support Cap and Gown sponsored University scholarships.

$1.35 — includes mailing charges.

Cap and Gown Society
P.O. Box 4484
Stanford, California

Please send me ..... copy(ies) of the Cap and Gown Calendar, for which I enclose my check for $..... ($1.35 each).

Name .....

Address .....

.....

Personalized Travel Counseling

Leo T. Sides
THE TRAVEL SERVICE, INC.
Shopping Center at Stanford
Palo Alto, California
Davenport 4-1691

We Show You How To Go

REALTORS
HOMES & INVESTMENTS
INSURANCE
MORTGAGE LOANS
PROPERTY MANAGEMENT
9 Stanford grads associated with
HARE, BREWER & KELLEY, INC.
Since 1925
DA 3-5155 ■ 525 University Ave., Palo Alto

☆ Stanford's Favorite Since 1932! ☆
Refreshments ☆ Dinners ☆ Banquets
André's L'OMELETTE
the FRENCH RESTAURANT & BISTRO
2 Miles South of Stanford on Old El Camino Real
☆ Closed Mondays and Tuesdays ☆

Strictly Personal

1902

JONES—Herbert C. Jones, State Senator from Santa Clara County from 1913 to 1935, was honored in September at a meeting of the Santa Clara County Society of California Pioneers. More than 300 people attended the testimonial luncheon. Active in civic affairs for some 50 years, Jones is a former president of the Santa Clara County Bar Association. He currently is board chairman of Agnews State Hospital.

1908

LAKIN—Egerton D. Lakin, JD '10, Palo Alto attorney and former judge, recently retired as chairman of the board of Home Foundation Savings and Loan Association, a firm of which he was a founder.

1909

PHELPS—Clarence L. Phelps became an emeritus member of the University of California at Santa Barbara faculty in 1946, retiring with the rank of provost.

1912

CARTER—Brace Carter retired in September as secretary-treasurer of the Northern California Senior Golf Association, a post he had held for the past 33 years. Some 80 "old guard" golfers attended a testimonial luncheon in his honor. Among other things, he received a booklet of letters from friends and associates—a tribute to the man who virtually founded senior golf in the area. Perhaps he'll now have even more time to keep in touch with classmates—a job he did magnificently as chairman of the Golden Anniversary Reunion!

1913

FIELDS—Arthur L. Fields has been named chairman of the board of trustees of Lewis and Clark College. He joined the board in 1954, following his retirement from the automobile business in Portland. For 37 years he was owner and president of Fields Chevrolet Co. He also serves on the boards of Pacific Power & Light Co. and Oregon Portland Cement Co. He is a former First Citizen of Portland.

1918

LEAVITT—Melbourne L. Leavitt, president of the Southern California insurance firm of Leavitt, Fox and Chalker, Inc., recently attended the 50th anniversary reunion of his high school football team in Hoquaim, Wash. Leavitt gave the principal address at the banquet. An insurance broker in Los Angeles for more than 30 years, he also is a director of the new Commonwealth Bank in Los Angeles.

1920

HENDERSON—Paul L. Henderson retired in July after 33 years of service with the Ohio Oil Co. He was vice-president of production for Marathon International at the time of his retirement. He joined the firm in 1929 in Los Angeles and had served in Houston and a number of other locations. He was named chief geologist of Ohio Oil in 1944 and in 1955 became vice-president of production and a director.

1923

Marriages

BROWN-GERMAIN—Judge Merwyn Brown to Gloria Germain, Sept. 9 in Incline Lake, Nev. They will live in Winnemucca.

1924

Marriages

PIGOTT-McCONE—Theiline McGee Pigott to John Alex McCone, Aug. 29, in Seattle, Wash. They will live in Washington, D.C., where the groom is director of the Central Intelligence Agency.

1925

COLLETT—Charles Elmer Collett, an assistant U.S. Attorney in San Francisco, recently received the Sustained Superior Performance Award of the U.S. Department of Justice. He joined the staff in 1942 and returned to the post after Navy service in World War II. He is now chief of the civil division in the U.S. Attorney's office in San Francisco.

PAULSEN—Catherine Paulsen retired in June after 33 years on the faculty of Taft High School and College. She went to Taft in 1929 as an English instructor in the high school and has served as dean of girls, director of guidance, and head counselor. She plans to move to Menlo Park.

TRIEST — Robert Joseph Triest is with J. Barth & Co. in Los Angeles.

TREMAINE — Glendon Tremaine, senior partner in the Los Angeles law firm of Tremaine & Shenk, has been elected president of the Los Angeles Group, American Society of Corporate Secretaries. He is a trustee of the Los Angeles Bar Association and a director of Network Electronics Corp., Automated Sports Centers, Inc., Lasco Industries, Standard Carriage, Triangle Business Machines, and Empire Financial Corp.

1927

HARMON—Dr. F. Carlyle Harmon, Engr. '28, vice-president and director of research at Chicopee Manufacturing Corp., Milltown, N.J., has collaborated with Frank Kalwaites on an invention for producing nonwoven fibrous sheets for which the firm was recently granted patents in the textile field. With the firm since 1947, he is a member of the board of directors.

1928

RAE—James E. Rae and J. Lyle Cunningham Jr., '53, who have been partners in an insurance agency for the past five years, recently associated with the firm of Columbia Associates, Inc., one of Pasadena's largest insurance agencies.

PAUL L. HENDERSON
See Class of 1920

1929

GIFFEN—Hilliard R. Giffen, partner in the Fresno accounting firm of Giffen, Hills & Carruth, has been elected vice-president of the American Institute of Certified Public Accountants.

PHILBROOK — Warren R. Philbrook has been appointed to the national budget and counseling committee of the United Community Funds and Councils of America.

Marriages

KERN-BRIGHAM—Albert Eugene Kern Jr. to Marj Brigham, Aug. 8 in San Francisco. They will live in San Francisco.

WOOLL-WIEMERS—Jack Harrison Wooll to Marjean Wiemers, Sept. 8 in San Rafael. They will live in San Rafael.

1930

BRAINERD — James L. Brainerd, treasurer and business manager of Menlo College for a number of years, has left that post to become vice-president for financial affairs of the American Colleges in Istanbul, Turkey. The colleges are comprised of Robert College and the American College for Girls.

OLSON—Ansgar C. Olson is with the California Franchise Tax Board in San Francisco.

Marriages

SPEEGLE-LAMONT—Paul Speegle to Margery Walsh Lamont, Aug. 23 in San Francisco. They will live in San Francisco where the groom is a columnist for the *News-Call Bulletin.*

1931

CATHCART—Arthur J. Cathcart, LLB '35, has been named corporate secretary of Baker Oil Tools, Inc., Los Angeles. He will continue as general legal counsel for the firm. A former Palo Altan, he served as a member of the city council from 1949 to 1952.

FAGERBERG—Dixon Fagerberg Jr., Phoenix, Ariz., Certified Public Accountant, led a discussion of the relationships of accounting, auditing, and financial reporting to the world economy at the eighth International

Congress of Accountants in New York in September. He is a partner in the firm of Peat, Marwick, Mitchell & Co.

1932

MOTZ—Leslie L. Motz, Engr. '34, recently retired from the Ordnance Corps of the Army after 21 years of service. He has joined Pima Mining Co. near Tucson, Ariz. Daughters Celia and Camille are at home with Mr. and Mrs. Motz while son Charles is with the Navy and daughter Sharon attends Abbie Tuller School.

SIEGFRIED—Joseph H. Siegfried, Engr. '35, has been named an assistant chief engineer in the engineering department of Columbia-Geneva Steel Division of U.S. Steel. He will supervise facility planning and appropriations at the San Francisco headquarters.

1933

FULLER—W. P. Fuller III, a Stanford Trustee and former vice-president of W. P. Fuller & Co., has been appointed to head the West Coast glass sales activities of Pittsburgh Plate Glass Co.

NAYLON—George E. Naylon Jr., MBA '36, formerly with Gladding McBean & Co. in Southern California, has moved to East Orange, N.J., where he will be vice-president-finance and treasurer of International Pipe and Ceramics Corp. The new firm resulted from the merger of Gladding McBean with Lock Joint Pipe Co.

SPIEKERMAN—Ernest T. Spiekerman has been appointed deputy director in the office of management services of the Federal Aviation Agency. He entered government service in 1940 with the Bureau of Internal Revenue and has been with the FAA since 1960.

STANFORD—Dr. Donald E. Stanford, PhD '53, professor of English at Louisiana State University, has been appointed editor of the LSU Studies in the Humanities. He will be responsible for development and evaluation of manuscripts for publication in the series.

1934

HAWKINS—Prof. David Hawkins, AM '37, of the University of Colorado philosophy department, is serving as director of the Elementary Science Group of Educational Services, Inc., Watertown, Mass., for the current academic year. The group is working on ideas and materials for improving elementary education under the support of the National Science Foundation.

PACKARD — David Packard, president of Hewlett-Packard Co. and a Stanford Trustee, has been elected to the board of directors of the California State Chamber of Commerce.

1935

BELTON — William Belton is serving with the U.S. Foreign Service as counselor to the Ambassador to Australia.

1936

SMITH—Frank H. Smith, MBA '38, recently completed the two-week officer refresher course at the Finance School, Fort Benjamin Harrison, Ind. A colonel in the Army Reserve, he is assigned to the Army Reserve School in Oakland where he is a certified public accountant.

1937

ALLEN—David Allen, MBA '39, has been appointed statewide assistant to the dean of finance and northern area fiscal and business manager for the University of California's extension program. He had been a budget analyst for the University of California since 1955.

CRISPIN—J. Hewes Crispin has been named treasurer of Bechtel Corp., San Francisco. He will be responsible for all finance and accounting department activities. He joins Bechtel after 15 years with a large engineering-construction firm specializing in refinery and chemical processing plants.

1938

CLOSE—Winton R. Close recently was promoted to the rank of brigadier general in the Air Force. He is commander of the 820th Strategic Aerospace Division at Plattsburgh Air Force Base, N.Y.

KEITH—John A. Keith has been appointed plant manager of Kaiser Aluminum & Chemical Corp.'s Permanente foil plant. He joined Kaiser in 1949 as plant engineer at Permanente and was named administrative superintendent in 1956.

PARKER — Charles M. Parker, MBA '41, chairman of the social science department at Antelope Valley College, received his EdD from the University of California at Los Angeles in June. His dissertation was "The Role of the Legislative Auditor in the Development of Educational Policies and Decisions in California, 1941 to 1957."

RICHARDSON—Dr. Clark Richardson, MD '42, has resigned from his position as Tulare County health officer to join the faculty of the UCLA School of Public Health. A former Los Angeles public health department employe, he had been at Tulare since 1959.

ROGERS—Barbara Johnston Rogers reports that a daughter, Barbara Laurie, was married Oct. 13 to Robert Preston Cushing. She also has twin sons, now juniors in high school.

WATSON—Douglas Watson, MBA '40, has been elected a director of McKinsey & Co., Inc., international management consultant firm. With the company since 1944, he had been a principal since 1954.

1939

DREIER—Alex Dreier, American Broadcasting Co. news commentator, received two top Chicago area awards in TV in June — an EMMY for the best newsman-commentator and a second one for best performer.

1940

AUSTIN—Aubrey E. Austin Jr., president of Santa Monica Bank, has been appointed to a second term as vice-president of the American Bankers Association for California.

MUNZER—Rudy J. Munzer has been elected to the board of directors of First American Title Insurance & Trust Co. of Santa Ana. He is president of Petrolane Gas Service, Inc., and past president of the National Liquified Petroleum Gas Association.

NEWMAN—JoAnn Williamson Newman is teaching emotionally disturbed children in the hospital school at Connecticut Valley Hospital, Middletown, Conn. Her husband, James, is a vice-president in charge of the eastern region for Booz, Allen & Hamilton, management consultants. They have four daughters.

SIRACUSA — Ernest V. Siracusa has been named a special political adviser for Latin American affairs to the U.S. delegation at the United Nations. Entering diplomatic service in 1940, he has served in Mexico, Guatemala, Honduras, and Argentina. Most recently he had been assigned in Italy.

SPEIDEL—Robert M. Speidel has resigned as president and publisher of the *Visalia Times-Delta* and has relinquished membership on the board of directors of the Speidel Newspapers, Inc. He had held the Visalia position since 1948.

1941

ANDERSON—Ross Anderson has been appointed a vice-president of Macy's California and manager of the firm's San Francisco store. He joined Macy's in 1946 as a member of the first training squad in California and most recently had been vice-president and general merchandise manager of the Davidson-Paxon Co. in Atlanta, another Macy division.

HEMMING—Raymond Hemming, MBA '48,

RICHARD B. MULOCK
See Class of 1941

RAYMOND HEMMING
See Class of 1941

has been promoted to rank of captain in the Navy Reserve. In civilian life he is a Certified Public Accountant specializing in income taxes. He is a member of the Commonwealth Club and of Kappa Alpha fraternity.

MOULTON—Kenneth C. Moulton has been named acting general manager of the Pomona electronics division of the Marquardt Corp. He formerly was manager of plans and programs at the Pomona division, coming to the firm in 1961 from Beckman Instruments, Inc.

MULOCK—Richard B. Mulock, MBA '48, has joined Lenkurt Electric Co., Inc., San Carlos, as a reliability consultant in commercial products engineering. Before joining the firm he was a supervisor in reliability engineering and quality assurance at Sylvania Electronic Systems Division, Buffalo. Both firms are subsidiaries of General Telephone & Electronics.

PURKITT — Claude H. Purkitt has retired from the Army as a colonel after 20 years of service and currently owns and operates several apartment houses in Santa Monica and Los Angeles.

1942

BEHR—Jack D. Behr's four-year-old daughter, Lisa, is the 1962 Poster Child for the National Cystic Fibrosis Research Foundation.

DEUEL—Dr. Pauline B. Deuel, AM '43, PhD '51, taught at Stanford during the summer as a visiting associate professor of modern European languages. An associate professor of Spanish at the University of Redlands, she currently is in Mexico City with 80 Redlands students for the school's first Semester-in-Mexico. Upon her return she will join the faculty of the University of Southern California as an assistant professor of Spanish. Her book, *Mexican Serenade: The Story of the Mexican Players and the Padua Hills Theatre*, was published earlier this year.

HOPPER—George Hopper, LLB '49, Orange Cove attorney, has been elected chairman of the Fresno County Democratic Central Committee.

1943

BARNES—Gordon Barnes has been appointed to the Stockton City Council, to fill an unexpired term. He is general manager of the Sterling department store and had been a director of the Stockton Merchants Association and a member of the Chamber of Commerce's education and civic improvement committees.

CRAMER—T. Dudley Cramer, MS '48, has been elected president of the Lowell Joint Elementary School District board of trustees in Whittier, Calif. He is a supervisory engineer with the Standard Oil Co. of California at La Habra. His wife is the former Catherine Jones, '47.

EASTMAN—Stanley Eastman has been elected clerk of the board of the Richmond Union High School District. He is an official of the Eastman Tag and Label Co., Richmond, and vice-president of the West District Council of Community Services.

HUGHES — R. Stafford Hughes has been named to the board of trustees of Monterey Peninsula College to fill a term which expires next April. Professionally he is associated with the Monterey Savings and Loan Association.

MITCHELL—Otis W. Mitchell, who lives in San Jose, reports that a daughter, Diana, is a freshman at Stanford.

WEBSTER—Persis Johnson Webster, AM '44, Spanish teacher at North High School, Bakersfield, spent the summer studying at the Univeristy of Valladolid, Burgos, Spain, under a Fulbright grant.

1944

ANDERSON—George D. Anderson was selected by the American Institute of Certified Public Accountants to be a delegate to the eighth International Congress of Accountants in New York in September. A partner in the Helena, Mont., accounting firm of Anderson and ZurMuehlen, he is a member of the governing Council of the AICPA and a past president of the Montana Society of CPAs.

BROOKE — The Rev. John R. Brooke has been named pastor of the Sandy, Utah, Community Church. A graduate of Union Theological Seminary, he earlier had been serving a church in Council, Idaho.

REYNOLDS—James M. Reynolds, president of Reynolds Printasign Co., Pacoima, Calif., has been appointed to the education committee of the Chamber of Commerce of the United States.

RULE—O. Rey Rule, formerly with Wells Fargo Bank and the United California Bank, has been elected vice-president and director of Wilshire National Bank of Los Angeles. He had been a lending officer with United California Bank for the past three years and before that was with Wells Fargo.

1945

BUTTERWORTH—Edward L. Butterworth was elected mayor of Arcadia, Calif., in April.

CONN—Edwin J. Conn Jr., LLB '49, has been elected president of the Guardsmen of San Francisco for the coming year. The group raises money to send needy boys and girls to summer camp. Conn is a partner with Samuel I. Jacobs in the San Francisco law firm of Dibble, Jacobs & Conn.

DAWSON—Wyatt W. Dawson, MS '48, has been named manager of the Thomas Coupling division of Chain Belt Co. of Milwaukee, Wis., and will be located at the Warren, Pa., headquarters. He had been central regional sales manager for Chain Belt in Milwaukee and was president of the Stanford Club in that area.

GEORGE D. ANDERSON
See Class of 1944

MANWARING—Marjorie Smith Manwaring has been elected president of the Family Service Agency of Marin. She earlier had served as membership chairman and secretary of the agency. Married to Dr. John Manwaring, she has three youngsters and has been active in the Girl Scouts and Boy Scouts.

SEAVER—Sallie Tiernan Seaver has been admitted to membership in Las Madrinas. The group supports the Rehabilitation Center of Children's Hospital in Los Angeles through funds raised at the Las Madrinas Debutante Ball. She is a past president of the Stanford Women's Club of Los Angeles.

WOLFF—Warren Wolff, formerly with the Bank of America in San Francisco, has joined the U.S. Agency for International Development in Washington, D.C., as a finance officer specializing in loans for Latin American countries. With Bank of America for 13 years, he had been an area relations officer in the Latin American division. On his AID job, he will work with the U.S. participation in Alliance for Progress.

Births

ZAPPETTINI—To Mr. and Mrs. Don Zappettini, '45 (Joan Donovan, '50), a daughter, Gail Elizabeth, May 2. They live in Orinda.

1946

GAMON—Lois Griffitts Gamon and her husband, David, are in Colombo, Ceylon, where he is attached to the American Embassy.

ROBERTSON—Jean McJannet Robertson has been elected to provisional membership in the Peninsula Mental Health Auxiliary. She lives in Menlo Park.

WOLCOTT—Mary Kenney Wolcott wrote the script for "Many Wonders," an 11-minute film telling the United Crusade story for the Bay Area counties. She is a writer in the San Francisco office of BBD & O advertising. She also is working on a book for children.

1947

JACKSON — Hugh C. Jackson has been named to the State Board of Registration for Civil and Professional Engineers. A Palo Alto resident, he is in investments and property management work. He is president of the board of trustees of Foothill College and a former Palo Alto City Councilman and president of the Palo Alto Chamber of Commerce.

ST. LOUIS—Howard St. Louis has been appointed Southwest regional manager for the Technical Coatings Division of W. P. Fuller & Co. He earlier was Northern California area industrial sales manager for the company. He will make his headquarters in the firm's Los Angeles office.

SIEMER—John W. Siemer has been named managing director of Hawaiian Antilles, N.V., South American subsidiary of American Factors, Ltd., of Honolulu. He has moved to Montevideo, Uruguay, where his wife and three children will join him. The firm has a major interest in two cane sugar properties located near Bella Union.

1949

BANTA – Dr. Arthur W. Banta has been named superintendent of the Portola Valley School District. He earlier had been superintendent of the Indio School District in Southern California.

HOFFMAN—Dr. Paul J. Hoffman, AM '51, director of the Oregon Research Institute, Eugene, delivered a paper titled "Some Theoretical Foundations of Psychological Tests" at the annual meeting of the American Psychological Association in St. Louis in September.

KIRBY—Robert G. Kirby has joined the faculty of the University of Southern California's Civic Center Division where he will teach a class in "Investments." He has been with the investment firm of Willis & Christy for the past 10 years.

STEVENS—The Rev. Allan O. Stevens has joined the ministry of United Presbyterian Church in La Mirada, Calif. He earlier had been at Norwalk, Calif.

Marriages

HARBER-WITT—Alvin Harber, AM '51, to Edith Carolyn Witt, recently in Los Altos. They will live in Mountain View. The groom is with Hewlett-Packard Co.

Births

CROSBY—To Mr. and Mrs. Wilson Gardner Crosby II, '49, AM '50, a daughter, Candilyn, Aug. 14 in San Jose. She joins Colleen, 5, Kathleen, 4, and Wilson III, 3. The father is teaching physics and mathematics at Camden High School. For the past two summers he has had National Science Foundation scholarships to study at San Jose State College.

HOLUBAR—To Mr. and Mrs. Allen R. Holubar, '49 (Bernice Hartley, '49), a son, Jay Lawrence, March 5 in Palo Alto. He joins Michael Allen, 8, Kent Hartley, 6, and Carey Ann, 3.

JERESKI—To Mr. and Mrs. Bernard Jereski (Evelyn Konrad, '49, AM '49), a daughter, Laura Diane, Dec. 3 in New York. The mother is head of Evelyn Konrad Public Relations and the father is in the construction business.

1950

BALCH—Alfred H. Balch has been awarded a Shell Fellowship at the Colorado School of Mines for the current academic year. He is a doctoral candidate in geophysics.

BOHNE—Stanford R. Bohne, administrative assistant at San Jose State College since 1960, has been named college accounting officer. He was an insurance underwriter before joining the college staff.

GLEN—Dr. Robert S. Glen, MD '54, recently was appointed associate professor of psychiatry at the University of Texas Southwestern Medical School in Dallas.

KAUFMANN – Shirley Ann Kaufmann recently received a master of education degree from the University of Miami.

LEVIT—Victor B. Levit, LLB '53, partner in the San Francisco and Los Angeles law firm of Long & Levit, has been named chairman of the National Conference of Christians and Jews for Northern California. He also is serving as chairman of the San Francisco Municipal Conference and as a director of the San Francisco Tuberculosis and Health Association.

EDWIN J. CONN JR.
See Class of 1945

LEYDECKER—Byron W. Leydecker, former vice-president and manager of the Stockton office of Crocker-Anglo National Bank, has been named president of the new Marin National Bank in San Rafael. The move to Marin County finds him returning to an area where he was assigned by Crocker-Anglo from 1958 to 1961. His wife is the former Mary Kraft, '50.

OLSON—Roger C. Olson has been appointed president of Dwyer-Curlett & Co., pioneer Southern California mortgage banking firm. He was with Travelers Insurance Co. before joining Dwyer-Curlett in 1960 and is a past president of the California Mortgage Bankers Association. He is a lecturer at the annual School of Mortgage Banking at Stanford. He and his wife, the former Maile Scott, '49, have four children.

Births

BOGEL—To Mr. and Mrs. Kenneth P. Bogel (Elizabeth Anne Ripley, '50, AM '51), a daughter, Kathryn May, July 27 in San Mateo. She has two brothers, Paul, 5, and Steven, 3. The father is a sales executive for Swift & Co. in South San Francisco.

CRUM—To Mr. and Mrs. Robert W. Crum, '50 (Julia MacComsey, '51), a son, Daniel Spencer, Aug. 19. He joins Jimmy, 4. The father is an engineer in Shell Chemical Co.'s New York office.

1951

BARTLETT—Thomas A. Bartlett is a political and security affairs adviser for the U.S. Mission to the United Nations. He returned to his native Oregon recently to speak at a meeting of the Oregon United Nations Association.

CLOUGHLEY – Lt. Cmdr. William D. Cloughley completed the course in Navy management at the Naval Postgraduate School, Monterey, in May and was awarded the degree of master of science in management. He was promoted to his current rank in July and has been assigned to the U.S. Naval War College at Newport, R.I., to attend the command and staff course.

EMMRICH – Alfred R. Emmrich has been appointed vice-president and manager of the Los Angeles office of California Casualty Indemnity Exchange. He earlier had been secretary and chief underwriter in the San Francisco office of the company.

GALLAGHER—Hildred Longyear Gallagher has been elected to a second term as president of the Sausalito Nursery School. She has two children, Philip, 5, and Hildred, 4.

KREHBIEL—Tom Krehbiel, LLB '53, has become associated with John McFall and John Burnett for the practice of law in Manteca. He earlier had practiced in Stockton.

LEON—Edward W. Leon, MBA '55, former Palo Alto supervisor for Equitable Life Insurance Co. of Iowa, has been promoted to junior officer rank as assistant superintendent of agencies at the home office in Des Moines. He has served as a field training assistant and field supervisor since leaving California in 1958.

RODRIGUEZ-SARG—Carlos Rodriguez-Sarg is planning to install the first automobile assembly plant in Central America—for Rambler.

SHELLING—Claus H. Shelling, MBA '54, a field underwriter for Mutual of New York's Palo Alto agency, has passed the first of five examinations leading to the highest professional designation in the life and health insurance industry—that of Chartered Life Underwriter.

STOKELY—H. G. Stokely has been appointed manager of the Burbank office of United California Bank. He has been with the firm since 1955 and most recently was assistant manager of the Wilshire-Catalina office.

TRIPLETT—Dr. Edward L. Triplett, PhD '56, a member of the faculty of the University of California at Santa Barbara for seven years, is spending the current academic year in Brussels, Belgium, where he will work in the laboratory of Professor Jean Brachet. A specialist in chemical embryology, Dr. Triplett's work is being supported in part by a grant from the National Institutes of Health and a contract with the Office of Naval Research. His wife and three children accompanied him to Europe.

VAUGHAN—Richard H. Vaughan, MS '51, has been named vice-president and chief geologist of Occidental Petroleum. With the company since 1959, he had been chief geologist at the operations headquarters in Bakersfield. He is president of the San Joaquin Valley Geological Society.

WONG—Zeppelin W. Wong, senior member of the San Francisco law firm of Wong & Losh, has been appointed to the National Panel of Arbitrators of the American Arbi-

WYATT W. DAWSON
See Class of 1945

JOHN W. SIEMER
See Class of 1947

tration Association. He also is vice-president and director of the Telegraph Hill Neighborhood Association and a director of the Council for Civic Unity, the Wong Family Association, and the Actors Workshop.

Births

HANDY—To Mr. and Mrs. Ralph P. Handy, '51, AM '55 (Marlene Bogel, '54), a daughter, Susan Leigh, July 12 in Palo Alto. She joins Bruce, 3, and Karen, 2. They live at Stanford where the father is associate editor of publications.

LA FETRA—To Mr. and Mrs. Frank E. La Fetra, '51 (Janice Voigt, '53), a son, Ross Voigt, June 4 in Los Angeles. He joins Frank Jr., 7, and Cheryl, 5. The father is a sales engineer in the Los Angeles offices of Raychem Corp. of Redwood City.

OKUN—To Mr. and Mrs. Herbert S. Okun, '51, a daughter, Elizabeth, July 28. She joins Jennifer, 3½. The father, a Foreign Service Officer, is second secretary of the U.S. Embassy in Moscow.

1952

GODINO — Richard V. Godino has been named deputy county counsel of Marin County. He earlier had been a member of the legal staff of the California Public Utilities Commission.

LA MORTE—James F. La Morte has been named assistant director of the ground systems office in Aerospace Corp.'s engineering division, space launching systems development office.

MEIGS—Gilbert R. Meigs, MS '56, is an associate with Stevens and Thompson, Inc., consulting engineers, in Portland, Ore. He has three children, James, Andrew, and Nancy.

SMITH—Gerald W. Smith, MBA '55, is in the doctoral program in the division of family study, Department of Psychiatry, of the University of Pennsylvania Medical School. He is a minister in the United Church of Christ and plans to enter the specialized ministry of pastoral counseling.

SNOOK—Clarence D. Snook has been named TBA sales supervisor for Tidewater Oil Co.'s Northwest marketing district covering Washington, Oregon, and Idaho.

Births

FORTINE—To Mr. and Mrs. Eugene A. Fortine, '52, MS '53 (Pat Jones, '53), a daughter, Terri Louise, Sept. 21 in San Leandro. She joins Alan, 6, Judy, 4, and Linda, 2. The father is with the Kawneer Co. in Richmond.

WILSON—To Mr. and Mrs. David J. Wilson, '52 (Martha Mayers, '52), a son, Andrew Lyman, Sept. 8. He joins three brothers, John, 7, Charles, 3, and Bill, 1. The father is an assistant professor of chemistry at the University of Rochester.

1953

BAIRD—James C. Baird has been named assistant professor of chemistry at Brown University. He earlier had been an industrial chemist with the California Research Corp.

CONRAD—David A. Conrad, MS '54, PhD '55, has been transferred to Culver City, Calif., where he will head a group on powered flight analysis in connection with the "Surveyor" lunar soft landing project at Hughes Aircraft Co. He had been with Hughes in Tucson, Ariz., since 1958.

CUNNINGHAM—J. Lyle Cunningham Jr. and James E. Rae, '27, who have been partners in an insurance agency for the past five years, recently associated with the firm of Columbia Associates, Inc., one of Pasadena's largest insurance agencies.

DAHL—Capt. David J. Dahl, MD '56, recently arrived in Iran with the 8th Evacuation Hospital to help care for victims of the earthquakes which struck Iran in September. He is regularly assigned as a surgeon in the 225th Station Hospital, Munchweiler, Germany.

DOERR—Michael Doerr has been awarded a scholarship by the Women's Club of Florence, Calif., for study at the University of Southern California School of Library Science. For several years he has worked as a business news reporter for the *Los Angeles Mirror*.

FOLEY—John Field Foley, LLB '56, has opened his own office for the practice of law in San Jose after several years of association with the firm of Wool and Richardson. He is a newly-elected member of the Republican Central Committee of Santa Clara County and treasurer of the San Jose Stanford Club.

HOWARD ST. LOUIS
See Class of 1947

HEALY—Ann Healy has been promoted from assistant secretary to assistant investment officer in the financial analysis department of Wells Fargo Bank. She is active in the Financial Women's Club of San Francisco.

MATTHEW—Theodore Biddle Matthew, MS '54, has been named manager of Oregon Technical Products, a newly-created division of Textron, Oregon. He will establish a new electronics manufacturing facility in Grants Pass. He and his wife, the former Eileen Holm, '55, AM '56, have moved to that city from Portola Valley where they lived when he was associated with Hewlett-Packard.

TAYLOR—Dr. and Mrs. Robert Clark Taylor (Susan Grandin, '57) flew to London early in July where Dr. Taylor attended the first International Conference of Oral Surgery. He gave a report on his research on the Temporomandibular joint at the University of California Medical Center. Following the session they visited Germany and Copenhagen before returning to San Francisco.

VAN SANT—Tom Van Sant has been commissioned to do four murals for the social science-humanities libraries of the new college library under construction at Mt. San Antonio College. A member of the faculty of Otis Art Institute of Los Angeles County, he has produced a number of murals for commercial, business, and church buildings in California, Texas, and Utah.

Marriages

MITCHELL-O'SHEA—James Morris Mitchell, LLB '55, to Patricia Jane O'Shea, recently in the Stanford Memorial Church.

Births

HICKS—To Mr. and Mrs. William T. Hicks (Joy Sandner, '53), a third daughter, Kathleen Joy, Aug. 5 in Wilmington, Del. She joins Alison, 4, and Sara, 2.

HUDSON—To Mr. and Mrs. Michael C. Hudson, '53, AM '56 (Mary Hahn, '54, AM '54), their first child, a daughter, Margaret Elinor, Sept. 6 in San Francisco.

JOHNSON—Lt. and Mrs. Eldon D. Johnson (Dixie Hayes, '53), have adopted a son, Richard Eldon, born Feb. 3. They are living in Barranquilla, Colombia, where the father is assigned to the U.S. Naval Mission.

SAETA—To Mr. and Mrs. Philip Saeta, '53 (Joanne Hixson, '53, AM '54), a son, Stephen, Aug. 16 in Los Angeles. He joins David, 3, and Peter, 1½. The father is an attorney with the firm of Brandsley, Hosstedler, and Kemble.

ZANINOVICH—To Mr. and Mrs. George Zaninovich, '53 (Kay Debs, '58), a son, Michael John, Sept. 29 in San Mateo. He joins Kathleen, 16 months. The father is a research associate at Stanford and working for his PhD. They live in Menlo Park.

1954

McKAY—Peter McKay has joined the faculty of Bakersfield College where he will teach history.

Marriages

CHAMPION-CHAPMAN — Jack Anthony Champion to Jo Ella Chapman, recently in Portuguese Bend.

LOUIS-DURNO—Ronald Alan Louis to Kaye Elizabeth Durno, Sept. 8 in Medford, Ore.

They will live in Lafayette. The groom is district supervisor for Louis Stores, Inc.

Births

ROSENBERG—To Mr. and Mrs. Robert Rosenberg, '54, LLB '56 (Joyce Grier, '56, AM '57), a daughter, Amy Elizabeth, May 7 in Berkeley. The father is associated with the Oakland law firm of Breed, Robinson, and Stewart. They live in Orinda.

1955

CHAPIN—Alan C. Chapin recently graduated from the American Institute for Foreign Trade, Phoenix, and has joined Symington Wayne International.

HALL—Ruth Anne Binns Hall, her husband, Alan, and daughter, Eve, have moved from New York to Spain. Alan, a former *Time* magazine writer, will concentrate on free lance writing.

MEDEARIS—Robert W. Medearis has been promoted to vice-president of the Lusk Corp. He joined the firm in 1959 and had been manager of the Tucson, Ariz., division since last year.

Marriages

BROWN-MATHEWS — Laurence Kuno Brown, LLB '57, to Nancy Jean Mathews, LLB '60, recently in Beverly Hills. They will live in Los Angeles.

McCUE-MEADOWS—Capt. Robert B. McCue to Sara Evelyn Meadows, June 10 in Vidalia, Ga. They will live in Saigon, Viet Nam, where the groom is attached to the U.S. Embassy and a student at the University of Saigon.

PHILLIPS-VON DORNUM — Rowena Sara Phillips to John H. von Dornum.

Births

ARTHUR—To Capt. and Mrs. Dennis S. Arthur (Donna Addis, '55), a daughter, Derede-Linnette, July 31. They live at Mountain Home Air Force Base, Idaho, where the father is an aircraft commander with the Strategic Air Command.

BROWN—To Mr. and Mrs. Harmon C. Brown Jr., '55 (Mardi Burritt, '57), their first child, a daugther, Allyson Ann, April 30. The father is a stock broker for Walston & Co. in Riverside.

McCARTHY—To Mr. and Mrs. James McCarthy, '55 (Lynn Colebourn, '56), a son, Matthew Jordan, Aug. 14 in Covina, Calif. He joins Dennis, 6, and Chris, 4. The father is with the Stanford Research Institute.

SANDBERG—To Mr. and Mrs. Charles H. Sandberg, '55 (Joan Rydman, '55, AM '56), a daughter, Stephanie Maureen, Aug. 7 in Pasadena. She joins Kristen, 5, Charles Eric, 3, and Derrik Martin, 1½. The father is vice-president of Sandberg Furniture Co.

1956

FLORIDA—John Anthony Florida recently graduated from the American Institute for Foreign Trade, Phoenix, and has joined J. Walter Thompson Co., New York.

MAURER—Dr. John I. Maurer, MD '60, recently was called to active duty in the Air Force with the rank of captain and has completed the orientation course for officers of the medical service at Gunter Air Force Base, Ala. He has been assigned to the 820th Medical Group at Plattsburgh Air Force Base, N.Y.

PAULETICH—Richard Pauletich has been named coordinator of development at St. Mary's College. He earlier had been with Allstate Insurance Co. in Menlo Park.

RUDD—Ann Samuels Rudd and her husband, Hughes, and son, Jon, are in Atlanta, Ga., where he is chief of the Columbia Broadcasting System news bureau.

SMITH—Dana Smith and his wife, the former Nancy Kennedy, '56, have moved from Tulsa to Oklahoma City—he has been transferred by Sunray-Midcontinent. They have three children, Sharon Lynn, 4, Michael, 1½, and Dennis Cleary, 3 months.

1957

ANDRE—Richard Andre has joined the faculty of Summerville High School near Sonora. He earlier taught journalism and photography at the College of Sequoias and Foothill College and for the past year has been owner of the Photo-News of Sonora.

HORSLEY—Ronald R. Horsley has been named to the newly-created position of planning coordinator at Granger Associates, Palo Alto. With the firm since 1959, he earlier was an engineering administrator.

LOGAN—Capt. Laurence J. Logan recently completed the medical officer orientation course at the Medical Field Service School, Fort Sam Houston, Tex.

POWELL—Brook T. Powell has been appointed personnel director at the Pomona Valley Community Hospital. He earlier had been administrative resident at Covina Intercommunity Hospital.

SALSBURY—Edward Salsbury has joined the J. H. Hedrick Co., trans-California builders of income properties, as sales administrator. He had been engineering coordinator with the Los Angeles Flood Control District for the past four years.

SAWYER—Robert F. Sawyer has received a Daniel and Florence Guggenheim fellowship to study at the Guggenheim Laboratories for the Aerospace Propulsion Sciences at Princeton University. He will be working for his PhD.

TEMPLETON—William Harvey Templeton is a sales engineer with Fairchild Semiconductor Co. at the Sherman Oaks offices.

TOWNE—Dr. Peter M. Towne has opened offices for the practice of optometry in Willows, Calif., in association with Dr. J. G. Isenberg. He received his optometry degree from Pacific University in Forest Grove, Ore.

Marriages

FUNSTEN-PATE—James Johnston Funsten to Elizabeth Pate, Aug. 18 in San Francisco. They will live in San Francisco where the groom is in business.

JENKINS-MARVIN — Thomas Walter Jenkins to Mary Eleanor Marvin, recently in Beverly Hills. They will live in Alhambra.

LYNCH-MARTIN—Martha Helen Lynch to George Gary Martin.

TWIST-DAVIDSON — Thomas Charles Twist, MBA '62, to Mary Elizabeth Davidson, '61, Sept. 16 in Grand Rapids, Mich. They will live in San Pedro.

ROGER C. OLSON
See Class of 1950

1958

BAKER—Robert F. Baker, who has been an instructor in biochemistry at the University of Kansas while doing graduate study, was at the Roscoe N. Jackson Memorial Laboratory, Bar Harbor, Maine, during the summer. He studied the metabolic rate of sub-cellular, energy-producing granules.

CHRISTIANSEN—Robert O. C. Christiansen, MD '61, has been commissioned as a captain in the Army and recently completed the medical officer orientation course at the Medical Field Service School, Fort Sam Houston, Tex.

DAY—Ronald F. Day has been elected to the board of directors of the Redondo Beach Chamber of Commerce. He is general manager and treasurer of the Pacific Crest Cemetery, and active in the Interment Association of California.

HICKS—Lee A. Hicks was ordained in June by the Presbytery of San Jose at the Los Gatos Presbyterian Church. He was graduated from San Francisco Theological Seminary in June and has assumed duties as pastor of the United Presbyterian Church and the Congregational Church of Elkin, Neb.

McCAUGHEY—David B. McCaughey recently graduated from the American Institute for Foreign Trade, Phoenix, and has joined Chase Manhattan Bank.

McELHENY — Richard L. McElheny has joined the marketing and planning group of Solar, a subsidiary of International Harvester Co., in San Diego. He earlier had been with Republic Supply Co. in San Leandro.

SMEAD—Frank W. Smead has been transferred from the Aeronutronic Division of Ford Motor Co., Newport Beach, to the Western Development Laboratories of Philco in Palo Alto.

Marriages

AMES-ELLARD—Nicholas C. Ames to Patricia Margaret Ellard, Aug. 18 in Solana Beach, Calif. The groom is an accountant with the San Diego firm of Steres, Brown, Alpert, and Kraft.

DOMOLKY-FISHOF — George Domolky to Serena Marlene Fishof, Sept. 16 in Los Gatos. They will live in Berkeley.

MacDONALD-HOSSOM—J. Ward MacDonald and Sherrill Lee Hossom, both Class of 1958, were married recently in Long Beach. They will live near Stanford while both continue their graduate studies.

1959

ADAMS—Stewart Chalmers (Bud) Adams received his law degree from the University of California Boalt Hall Law School in June.

BROWNSON—Mary Jane Brownson is spending the current year studying for her master's degree at the University of Madrid. During the summer she was at Middlebury College, Vermont.

CHAMBERS—Charlene Elinor Chambers recently graduated from the American Institute for Foreign Trade, Phoenix, and has joined Pan American World Airways.

CONLEY—Stephen Townsend Conley has received a $1000 scholarship from the National Association of Home Builders to continue his studies at the University of California at Los Angeles.

LAMBIRD—Dr. Perry Albert Lambird has begun his internship in internal medicine at Johns Hopkins Hospital. He received his medical degree from Johns Hopkins School of Medicine.

O'SHEA—M. Lester O'Shea has been granted a Wesley Elgin Travis Award for his second year of graduate study at the Harvard Business School. He held a Fulbright Scholarship and studied at Oxford University before commencing his graduate work at Harvard.

Marriages

BENNINGER-RILEY—Janice Benninger to William J. Riley, recently. They will live in Norfolk, Va., where the groom is a special agent with the Federal Bureau of Investigation.

BOHN-NEUKOM—John A. Bohn Jr. to Barbara Anne Neukom, Sept. 2 in San Mateo. They will live in Cambridge, Mass.

BROWN-BEAUMONT — Thomas Runnels Brown to Joan Cliff Beaumont, Sept. 1 in Belvedere. They will live in Palo Alto while the groom continues his studies at Stanford.

GAMBLE-LAW—Launce Edwin Gamble to Joan Law, Sept. 22 in the Stanford Memorial Church. They will live in San Francisco.

RONALD R. HORSLEY
See Class of 1957

HETLAND-CATHCART — Robert L. M. Hetland to Marilyn Elisabeth Cathcart, recently in Berkeley. The groom is associated with the Stanford Research Institute.

SILK-FOLEY—Andrea Silk to William N. Foley. They will live in Sacramento where the groom is an attorney with the California Department of Finance.

WHYTE-LEWIS — Nancy Glenn Whyte to Robert Gean Lewis, Aug. 18 in Deerfield, Ill. Both are working for the PhD in English at the University of Wisconsin.

Births

CHEU — To Mr. and Mrs. Richard Alden Cheu, '59 (Janey Young, '60), a son, Dwight Alden, June 2.

SCHWAB — To Mr. and Mrs. Charles R. Schwab, '59, MBA '61 (Susan Cotter, '61), a daughter, Virginia Moore, Aug. 17. She joins a sister, Carolyn Mills. The father is with an investment advisory firm in Menlo Park.

1960

STEIN—Aletha Huston Stein received a master of arts degree from the University of Minnesota in June.

SWOPE—Lt. Norman K. Swope received his MBA from the University of Pittsburgh in August and attended the ground electronic officer's school at Kessler Air Force Base, Miss., prior to his assignment in space systems operations at Hanscom Field, Mass.

THOMSON—Lt. David A. Thomson recently completed the Air Force advanced navigator-bombardier course at Mather Air Force Base, Calif. He has been assigned as a C-124 Globemaster navigator at McChord Air Force Base, Wash.

Marriages

ANDRADE, Margaret Teresa—See O'Brien-Andrade, Medicine.

BOWMAN, Barbara Anne—See Carey-Bowman, Business.

GOERTZ, Jean — See Cramer-Goertz, Class of 1961.

NELSON-PRESCOTT—Warren Richard Nelson to Ann Merritt Prescott, '62, Sept. 1 in Los Angeles. The bride is a daughter of Mr. and Mrs. Phil J. Prescott (Wilma Conn), both Class of '36, and granddaughter of Gertrude Knopp Prescott, '06. The ceremony was performed by the bride's uncle, Dr. Howard Conn, '32, pastor of Plymouth Congregational Church of Minneapolis.

SMITH, Deanna Day — See McNitt-Smith, Class of 1962.

WELBORN-DANNER — Ann Welborn to Alden Danner, recently in San Francisco. They will live in Palo Alto while the groom does graduate work at Stanford.

Births

DE BEIXEDON—To Mr. and Mrs. Edward K. F. de Beixedon, '60 (Margaret Rinderknecht, '62), their first child, a son, John Kingsland Fremaux, Aug. 12. The father is in the trust department of United California Bank, Los Angeles. They live in South Pasadena.

1961

PFISTER — Walter Brooks Pfister recently graduated from the American Institute for Foreign Trade, Phoenix, and has joined Deere & Co.

MERRIFIELD—Ensign Charles W. Merrifield graduated in July from the Navy Supply Corps School at Athens, Ga., and has been assigned to a destroyer escort, the *USS Bridget*.

STEUER—Lt. Norman F. Steuer III received his commission in the Air Force in August and currently is at Chanute Air Force Base, Ill., undergoing special training to be an aircraft maintenance officer.

WANLESS—Loren E. Wanless has been commissioned a second lieutenant in the Air Force upon graduation from the Officer Training School at Lackland Air Force Base, Tex.

Marriages

CLEAVELAND-FUNK—James Ralston Cleaveland to Marilyn Gail Funk, '62, Sept. 8 in Kentfield. They will live in London where the groom is studying at the London School of Economics.

COOPER-CALLAWAY—James Michael Cooper to Susan Elizabeth Callaway, '63, recently in Oakland. They will live in Palo Alto where the groom teaches at Jordan Junior High School.

CRAMER-GOERTZ—John Cramer to Jean Goertz, '60, in December. They are in Berkeley where the groom has entered Boalt Hall School of Law at the University of California.

DAVIDSON, Mary Elizabeth — See Twist-Davidson, Class of 1957.

HERMES-BROWN—Mary Charlyne Hermes to Donald J. Brown, recently in Palo Alto. They will live in San Francisco. Both bride and groom are with Harcourt, Brace and World Publishers in Burlingame.

KAI-BINNEY—Ann Kai to George Andrew Binney III. They live in Washington, D.C.

SOX-HILL — Harold Carleton Sox Jr. and Carol Helen Hill, both Class of 1961, were married Aug. 26 in San Francisco. They will live in Boston while the groom is a student at Harvard Medical School.

WANLESS-ERDMAN—Lt. Loren E. Wanless to Mary Jeanette Erdman, '62, recently in Palo Alto. They will live in San Angelo, Tex., where the groom is stationed with the Air Force.

WHITE-CROCKER—Anthony Russell White to Suzanne Daphne Crocker, Aug. 25 in San Mateo. They will live in Athens, Ga.

Births

BROBST — To Mr. and Mrs. Donald L. Brobst, '61 (Laurel Hutton, '61), a son, Stephen Andrew, Sept. 21.

1962

FEICHTMEIR—Anne Feichtmeir has joined the staff of the Beverly Hills Republican Club as an assistant to the office director.

Marriages

BATCHELDER-PAUP—Arden Ralston Batchelder and Paula Johanna Paup, both Class of 1962, were married Aug. 25 in Seattle, Wash.

CARTER-DUFF—Victor Neuhaus Carter II to Diana Joan Duff, Sept. 15 in Ross. They will live in Sausalito.

DRUM-MOFFITT—William Frederick Drum Jr. to Joan Moffitt, Sept. 15 in the Stanford Memorial Church.

ERDMAN, Mary Jeanette — See Wanless-Erdman, Class of 1961.

FUNK, Marilyn Gail—See Cleaveland-Funk, Class of 1961.

LEDGERWOOD-GIBSON—Robert Michael Ledgerwood and Jane Gibson, both Class of 1962, were married recently in the Stanford Memorial Church. They will live in Menlo Park while the groom continues his law studies at Stanford.

LEONARD-GREENE—Joe H. Leonard Jr. and Virginia E. Greene, both Class of 1962, were married recently. They are living in Cambridge, Mass., while both do graduate work at Harvard. The groom is working for a PhD in psychology and the bride is in the Divinity School.

McNITT-SMITH—Robert C. McNitt to Deanna Day Smith, '60, AM '62, Aug. 4 in Los Angeles. They will live in North Hollywood while the groom continues his studies at the University of Southern California Business School.

NEWSCHWANDER-STEWART — Carolyn Ann Newschwander to Glenn Alexander Stewart, Sept. 1 in Ellensburg, Wash. They will live in Seattle.

PRESCOTT, Ann Merritt—See Nelson-Prescott, Class of 1960.

ROYSE-BARKLEY — Larry Lloyd Royse to Mary Dickey Barkley, '64, Aug. 19 in Palo Alto.

SCHWEDE-HOPE — Hedda Gertrud Schwede to Roger Allen Hope, recently in Los Altos. They will live in Santa Monica.

STEIN, Sandra Lucille—See Onderdonk-Stein, Class of 1963.

WELBORN, Linda—See Lohse-Welborn, Engineering.

1963

Marriages

CALLAWAY, Susan Elizabeth—See Cooper-Callaway, Class of 1961.

CRAIG-ENDY—Susan Craig to Melvin Becker Endy, Sept. 7 in Princeton, N.J. They will live in New Haven, Conn., while the groom is studying at Yale Divinity School.

ONDERDONK-STEIN—John Lawrence Onderdonk to Sandra Lucille Stein, '62, recently in Rancho Santa Fe, Calif.

1964

Marriages

BARKLEY, Mary Dickey—See Royse-Barkley, Class of 1962.

Business

COLE—Charles L. Cole, MBA '55, has joined the faculty of the business and economics division of Los Angeles State College where he will teach in the department of economics.

DUNNICLIFF—Dean Dunnicliff, MBA '47, has purchased the Healdsburg, Calif., *Tribune, Enterprise and Scimitar*. He has been

EDWARD W. LEON
See Class of 1951

publisher of the *Dixon Tribune* for the past 13 years and serves as a member of the Dixon Planning Commission, Dixon City Park Commission, and the Dixon Chamber of Commerce.

FONDA — Allen B. Fonda, MBA '60, has joined the consulting firm of Stevens-Chase design associates in New York.

FORREST—Cmdr. J. E. Forrest, MBA '54, is director of the data processing division at the U.S. Navy Aviation Supply Office in Philadelphia.

GOOD—Frederick H. Good, MBA '52, has been named director of planning and research for the Del E. Webb Corp. With the Stanford Research Institute since 1952, he was in Switzerland for the firm from 1957 to 1960. Since returning to the U.S. he had headed all international commercial research for the Institute. With the Webb firm he will direct research on the business ventures proposed each year. His department is master-planning the development of 14,000 acres in California's Menifee Valley.

PETTIT—Theodore L. Pettit Jr., MBA '55, is publicity director for radio station KNX, a Columbia Broadcasting System station in Hollywood.

RAVE — Frank Rave, MBA '56, has been elected a vice-president of the Union Bank, Los Angeles. With the bank since 1958, he is a commercial loan officer in the downtown head office.

SMITH — Robert W. Smith, MBA '41, has been named managing director of Stanford Research Institute's European Office in Zurich, Switzerland. With SRI since 1948, he has served as senior industrial economist, division director, and manager of new program development.

Marriages

CAREY-BOWMAN—Roy Henry Carey, Gr. '59, to Barbara Anne Bowman, '60, Aug. 5 in the Stanford Memorial Church. They will live in Carlsbad, N.M.

GAILLY DE TAURINES-IVES—Alain Gailly de Taurines, MBA '60, to Laura Toppan Ives, recently in Paris, France.

JEROME-BILSLAND — Jerold V. Jerome, MBA '59, to Elaine J. Bilsland, Sept. 14 in Woodside. They will live in Inglewood. The groom is with Teledyne Precision, Inc., in Hawthorne.

WATTERS-HAYES — Robert M. Watters, MBA '58, to Denys E. Hayes, in June 1961 in Japan. They are living in St. Louis, Mo.

WHITE-PETERSON—Ralph Simpson White II, MBA '48, to Gladys Delight Peterson, Sept. 22 in Minneapolis, Minn. The groom is president of Pacific Electro Magnetics Co., Inc., Palo Alto. They will live in Los Altos.

Births

WELLAND—To Mr. and Mrs. John Randolph Welland, MBA '58 (Marilyn Claire Sicotte, '55, AM '56), a daughter, Marguerite Claire, Aug. 9 in Oakland.

Earth Sciences

IVANHOE—L. F. (Buzz) Ivanhoe, MS '50, spent September in Israel as an oil exploration advisor and during the summer was a mining engineering consultant for United ElectroDynamics Corp. — Tatum, Miss., salt dome "Dribble" (VELA) project. He now is at Scripps Institute of Oceanography.

MURRAY—C. Richard Murray, Gr. '49-'50, spent several months in Amman, Jordan, during the spring and summer helping the Jordanian government set up a water rights law similar to those in some of the semi-arid areas of the United States.

Education

BELL—Dr. Reginald Bell, AM '28, PhD '33, dean of instruction at San Francisco State College since 1950, has retired from that job to accept a position in India on the foreign staff of the Teacher's College of Columbia University. He will be stationed in New Delhi and serve as a specialist in teacher education in a program to develop a National Institute of Education.

BROOKS—Ronald D. Brooks, AM '55, has resigned from his post at Central Oregon College to accept a position as assistant professor of accounting in the department of business and economics at Arlington State College, a division of Texas A & M near Dallas.

CHURCH—Dr. Norval Church, AM '30, recently retired as head of instrumental music at Teachers College, Columbia University, after 38 years as a member of the faculty.

NORMAN F. STEUER III
See Class of 1961

DOUGLASS—Dr. Harl R. Douglass, PhD '27, director, emeritus, of the College of Education at the University of Colorado, is writing a monograph on "Current Trends in Secondary Education" for the Library of Education series, a project of the Center for Applied Research in Education, Inc.

DURYEA—Edwin D. Duryea, EdD '48, has been named to the newly-created post of dean of graduate studies at Hofstra College, New York. He earlier had been dean of the evening program at the school.

EBERT—Dr. Francis J. Ebert, AM '47, EdD '60, has been appointed superintendent of the Lafayette School District. He earlier had been an assistant superintendent of the Los Altos Elementary School District.

FURMAN—Phyllis M. Furman, Gr. '54, is in her 27th year with the Neenah, Wis., schools —her 16th year as principal of Washington School. She continues to devote half of her day to classroom teaching.

GOBAR—Helen Gobar, Gr. '53–56, was a delegate to the national convention of Phi Beta, national honorary fraternity of music and drama, in Chicago in August as president of Pi Lambda chapter. She also was a delegate to the International Soroptomist convention in San Francisco in July, representing the Burlingame–San Mateo club. Additionally, she has been elected council representative from Loma Prieta chapter of the Sierra Club.

GREGERSEN—Clayton Gregersen, AM '52, has been named principal of Sonoma Valley High School. He earlier had been a teacher at Campbell Union High School.

GROSSE—Marion Grosse, AM '45, retired in June as professor of industrial arts and head of the Division of Applied Arts at Fresno State College. He has been on the school's staff since 1935 and earlier taught evening trade and industrial classes at the Fresno Technical Evening School.

HILLER—Jeannette Snyder Hiller, EdD '52, has been elected a fellow of the American Association for the Advancement of Science.

HIMSTREET — William C. Himstreet, AM '50, has been presented with $1,000 "for excellence in teaching" at the University of Southern California where he serves as assistant dean of the School of Business and professor of business communications. The awards are based on a vote of graduating students.

HORNBAKER—Joseph B. Hornbaker Jr., AM '51, is president of Frisch Melish, Inc., drive-in restaurants, Cincinnati.

LOUNSBURY—Dr. John L. Lounsbury, AM '22, is the new president of Arrowhead Country Club in San Bernardino.

MARSH—Dr. Jack N. Marsh, AM '52, director of curriculum and instruction at Chabot College, has been named to a three-year term on the California Commission on Public School Administration.

MATTOX—Clifford J. Mattox, AM '40, retired in June as assistant superintendent for special services of the San Bernardino City Schools after 33 years of service with the district.

MIDKIFF—Maj. Kenneth A. Midkiff, Gr. '44, graduated from the Air Force's Command and Staff College at the Air University, Maxwell Air Force Base, Ala., in June. He has been assigned to the 3800th Air Base Wing at Maxwell AFB.

PATERSON—Hugh Paterson, AM '38, and his wife, the former Mary Newcomer, '24, are both retiring from their positions on the faculty of San Rafael High School after a combined total of 66 years of teaching. Both have regularly taught algebra, geometry, and trigonometry and have shared the chairmanship of the counselling and mathematics departments.

POWLISON—Peter A. Powlison, AM '55, is on sabbatical leave from Punahou School in Honolulu and will attend the Asian Studies and Russian Institute at the University of Washington for a period of nine months. He and his family plan to travel throughout the U.S. during the rest of his leave.

SANTEE — Dr. Harold Santee, Gr. '45–46, former superintendent of schools in Inglewood, has been appointed superintendent of schools in Palo Alto.

STEINBUCH — Harriet Caroline Steinbuch, AM '51, is a mathematics instructor in the Red Bluff, Calif., Union High School District and will again teach School Mathematics Study Group algebra and geometry during the current school year. Her husband is a retired Navy officer.

WELDAY — Samuel O. Welday, AM '16, visited Athens, Ohio, in June as the guest of Ohio University. He was "spokesman" for his class (1912)—and reports receiving most generous applause. He is a widower, his wife, Edith McCormick Welday, having died in 1959.

Marriages

DAL FAVERO-TONINI—Alfeo Dal Favero, AM '55, to Alice June Tonini, recently in Daly City. The groom is supervisor of education for the California State Correctional Facilities at Soledad. They will live in Salinas.

Births

NEWMAN—To Mr. and Mrs. Merrill E. Newman, AM '55 (Alicia Crowell, '56), a daughter, Jennifer Lee, March 7 in Palo Alto. She joins a brother, Jeffrey Crowell, 2½. The father is manager of manufacturing programming at Ampex Corp. in Redwood City.

TAYLOR—To Mr. and Mrs. Stanley Taylor (Shirley Henricksen, AM '48), their fourth child, a daughter, Terrell Agnes, July 14.

RICHARD L. MCELHENY
See Class of 1958

Engineering

CURLEY—Robert G. Curley, MS '55, has been elected a principal associate of Cresap, McCormick and Paget, international management consulting firm. He will continue to be associated with the Western Division headquartered in San Francisco.

HUNT—Dr. John M. Hunt, PhD '60, has been named senior vice-president and technical director of the Link Division of General Precision, Inc., in Binghampton, N.Y.

KIRCHER—Theodore A. Kircher, MS '55, has been promoted to senior associate engineer with International Business Machines Corp. He joined IBM at Endicott, N.Y., in 1960.

LIGOMENIDES—Panos A. Ligomenides, MS '56, PhD '58, is a research engineer with International Business Machines in San Jose and a part-time professor at the University of Santa Clara.

MANN—Joseph K. Mann, AM '47, has joined Kane Engineering Laboratories, Palo Alto, as manager of vacuum products. He earlier has been a project engineer at Varian Associates.

SWEET—Ray K. Sweet, MS '49, recently was promoted to the position of supervising highway engineer in the programs and budgets department in the Los Angeles Division of Highways office. He earlier was city and county cooperative projects engineer at Eureka with the California Division of Highways.

WALLACH—John Wallach, MS '54, recently received a promotion at General Electric Co. and has been named a mechanical engineer reporting to the manager of mechanical equipment engineering at the General Engineering Laboratory in Schenectady, N.Y.

WALTERS — Capt. Wilmer C. Walters Jr., MS '56, was graduated from the Air Force Command and Staff College and the Air University, Maxwell Air Force Base, Ala., in June. He has been reassigned to Headquarters, Air Force Systems Command, Andrews Air Force Base, Md.

WATT—Theodore Watt, MS '62, will study toward his doctorate and the University of Southern California while working part time for North American Aviation.

Marriages

LOHSE-WELBORN — Robert Lohse, Gr. '60-, to Linda Welborn, '62, recently in San Francisco. They will live in Palo Alto.

Humanities–Sciences

BAERNCOPF—Dr. David A. Baerncopf, AM '56, assistant professor of business statistics at the University of Oregon, has received the school's highest award for teaching excellence—the $1,000 Ersted Award.

BRITTAN—Dr. Martin R. Brittan, PhD '51, has been promoted from associate professor to professor of life sciences at Sacramento State College.

CANNELL—Barbara Stahl Cannell, Gr. '47-51, has been named associate dean of students at Barnard College. She is an assistant professor of psychology and in her new capacity will coordinate the activities of the major advisers with the dean's office.

CRUESS—Dr. William Vere Cruess, PhD '31, has had the food technology building of the College of Agriculture of the University of California at Davis named in his honor. A professor of chemistry, emeritus, he received an honorary LLD from the University of California in 1961.

GOURLAY—Patricia Southard Gourlay, AM '57, has been awarded a Wellesley College Fellowship supported by the Danforth Foundation for the 1962–63 academic year. A candidate for the PhD degree at Columbia University, she is specializing in the study of English and in comparative literature. Since 1958 she has been on the faculty of Dutchess Community College as a part-time and evening teacher.

HARDYCK—Jane Allyn Hardyck, PhD '62, has accepted an appointment as research assistant in the Psychology Department at the University of California at Berkeley where her husband, Curtis, is an assistant professor.

HUNT—Philip M. Hunt, Gr. '46, resigned recently as manager of the publicity, trades, and commerce department of the Portland Chamber of Commerce. He plans to devote more time to the field of public relations.

JENKINS—Charles Jenkins, AM '59, has been named an instructor in English at the University of Nebraska. He earlier had been an instructor at Norfolk Junior College in Nebraska.

KELLEY — Dr. Robert L. Kelley, AM '49, PhD '53, has been promoted to the rank of associate professor of history at the University of California at Santa Barbara.

MILLER—John N. Miller, AM '60, has been appointed instructor in English at his alma mater, Denison University, Ohio. For the past two years he held a similar position at Whitman College, Wash.

NOBLE—Dr. Glenn A. Noble, PhD '40, head of the biological sciences department at California State Polytechnic College, San Luis Obispo is co-author of *Animal Parasitology Laboratory Manual* which has been published by Lea & Febiger, Philadelphia. It is designed especially for beginning undergraduate courses in animal parasitology.

OSWALD—Dr. Joseph Gregory Oswald, PhD '58, has been granted a post-doctoral research grant by Ohio State University for the academic year 1962–63 and has been promoted to associate professor of history at the University of Arizona, Tucson.

ROJAS—Eustace Rojas, AM '47, has been named head of the Orange Coast College Faculty Association. On the faculty since 1949, he teaches music and Spanish.

SPAIN—Dr. James D. Spain, PhD '56, has been named professor and head of the new biological sciences department at Michigan College of Mining and Technology, Houghton, Mich. A graduate of Michigan Tech, he joined the school's faculty in 1956.

STEVENOT — Joseph E. Stevenot, MS '56, has been transferred to Augusta, Ga., to start a new synthetic detergent plant for Procter and Gamble.

WATERS—Walter K. Waters Jr., AM '51, has been appointed instructor in speech and drama and chairman of the speech and drama department at Monticello College, Alton, Ill. He earlier had spent three years as stage director and scenic designer for the New Savoy Opera Co., Portland, Ore., a repertory company producing four Gilbert and Sullivan operas each summer.

FREDERICK H. GOOD
See Business

WEBSTER—Frank X. Webster, Gr. '48, is vice-president and director of engineering for Metronics Associates in the Stanford Industrial Park.

WINDER—Dr. Clarence L. Winder, AM '46, PhD '49, has joined the faculty of the University of Southern California as professor of psychology. He earlier had taught at Michigan State, Stanford, and the Illinois Neuropsychiatric Institute.

Marriages

HAISSINSKY-SERRES—Jacques Haissinsky, AM '61, to Yvette Serres, AM '60, recently in San Francisco. They will live in Paris while the groom works for his doctorate.

ROSS-MOSHOS—Gary Meredith Ross, AM '62, to Donnice Dawn Moshos, Aug. 26 in Hawthorne, Calif. They will live in Pullman, Wash., where the groom will teach and work for his PhD at Washington State University.

Law

HALPIN—Jack Hadden Halpin Jr., LLB '52, has been named a judge of the Superior Court of Shasta County by Governor Brown. He had practiced law in Redding since 1952.

KISTLER — H. Donald Kistler, LLB '34, a member of the Washington, D.C., law firm of Collins, Robb, Porter & Kistler, recently was elected to his third two-year term as a member of the board of managers of Chevy Chase Village, Md.

LINCOLN—Preston S. Lincoln, JD '11, is recorder of the Massachusetts Commandery, Military Order of the Loyal Legion of the U.S. and curator of its Civil War Museum, the largest in New England. He also is a guest lecturer to NROTC students at Harvard and MIT on the influence of geology, geography, and the Navy on the Civil War.

McDANIEL — Bruce McDaniel, JD '20, is serving as president of the California Writers Guild. He lives in Redlands.

ROSNEAU—David Lee Rosneau Jr., JD '25, is serving his seventh four-year term as judge of the Limestone County Court, Athens, Ala., the first elective official of the county ever to serve seven terms. He also is a member of the faculty of Athens College and is serving as chairman of the department of political science. He represented the school at the DuPont Educators' Conference in Delaware in June and later spent eight weeks in Europe with his wife and younger daughter.

WHITTLESEY—Eben Whittlesey, LLB '40, has been elected mayor of the City of Carmel by his colleagues on the City Council.

Marriages

HEAFEY-EVANS—Edwin Austin Heafey Jr., LLB '55, to Ann Louise Evans, recently in Carmel. They will live in San Francisco.

JOHNSON-MALLATRATT—Robert Knowles Johnson, Gr. '61–, to Marilyn Mallatratt, Sept. 8 in New York City. They will live near Stanford while the groom continues his law studies.

MATHEWS, Nancy Jean—See Brown-Mathews, Class of 1955.

Births

ROSENBERG — To Mr. and Mrs. Donald Rosenberg, LLB '55, their first child, a son, Daniel John, in October, 1961.

Medicine

DAVIS—Fred J. Davis Sr., MD '07, has just completed 55 years of medical practice in California.

GARDNER—Dr. Ernest Gardner, MD '41, is associate dean of the College of Medicine, Wayne State University, Detroit.

LAXSON—Dr. William W. Laxson, MD '48, a major in the National Guard, participated in Exercise Mesa Drive, a joint Army-Air Force training maneuver at Yakima, Wash., in May. He is a surgeon with the 139th Engineer Battalion, an Army National Guard unit which was recalled to active duty and is assigned to Fort Lewis, Wash.

PARKER—Dr. Harlen M. Parker, MD '44, is chief psychiatrist at the Ross-Loos Medical Group in Los Angeles. He has been re-elected to a second term as chairman of the board of the Evangelical Welfare Agency, a new welfare agency whose first service is an adoption agency in Los Angeles and Orange Counties. It is sponsored by the National Association of Evangelicals, Southwest Region.

SAINIO — Dr. Margaret Kain Holsti Saino, MD '59, recently opened offices for the private practice of psychiatry in Belmont. She also has been appointed psychiatric consultant for the Vocational Rehabilitation Service of Northern California. A son, Olaf Holsti, has joined Sigma Alpha Epsilon fraternity at Stanford.

Marriages

O'BRIEN-ANDRADE — Robert E. O'Brien, Gr. '62–, to Margaret Teresa (Peggy) Andrade, '60, recently in San Francisco. They will live in Woodside.

Births

PAULSON — To Dr. and Mrs. Donald H. Paulson, MD '55 (Patricia Arkush, '53, AM '54), a daughter, Carol Florence, Aug. 22, She joins a brother, Douglas, 1. Maternal grandfather is Dr. Albert Arkush, '25, MD '29. The father has been a dermatologist at the Riverside Medical Clinic since completing his residency at Stanford Hospital.

In Memoriam

Faculty–Staff

BROWN—Walter H. Brown, professor of hygiene and physical education, emeritus, died Aug. 6 in Palo Alto following a cerebral thrombosis. He was 86. Prior to his retirement in 1942, Dr. Brown served for 15 years as director of the Department of Hygiene, now known as the Department of Health Education. He received his medical degree from Jefferson Medical College in 1906 and began his career as a rural physician in Bucks County, Pa. He received a certificate in public health from the Harvard-MIT School for Health Officers in 1914 and had assignments in Connecticut, Ohio, and Oregon before coming to Stanford in 1927. Additionally, he served with the American Red Cross and in France with the Rockefeller Commission for Prevention of Tuberculosis. He had been active in a number of professional groups. Survivors include his widow, a son, and three grandsons.

1895

MARBLE—John Emerson Marble died Sept. 22 in Pasadena after a short illness. He was 90. A native of Ohio, he moved to California in 1883. He was a vice-president of the National Bank of California until 1907 when he became president of the John M. C. Marble Co. He also was president of the Home Telephone Co. and for many years a director of the Associated Telephone Co. and its successor, the General Telephone Co. Until his retirement he was a director of the Bank of California. Survivors include a daughter, Miriam Marble Hinrichs, '28; and two sons, John, '25, and Robert, '33, MBA '35.

1901

LAW—Viva Burrel Law died Jan. 25 in Los Gatos of a heart attack. Survivors include a nephew, Harry L. Haehl Jr., '33, LLB '36.

SNODGRASS—Robert Evans Snodgrass died Sept. 4 in Washington, D.C. He was 87. One of the world's leading entomologists, he for many years was with the U.S. Department of Agriculture. At the time of his death he was an honorary research associate of the Smithsonian Institution. A handbook of insect morphology for students was in preparation. He had written and illustrated more than 80 scientific publications including *Textbook of Arthropod Anatomy* and *The Skeleto-muscular Mechanisms of the Honey Bee*. His major work, *Principles of Insect Morphology*, stands as a basic text in the field. Dr. Snodgrass was a member of many scientific organizations and had received a number of honorary degrees. He was with the Department of Agriculture from 1906 until 1945, except for the period between 1910 and 1917 when he devoted himself primarily to the field of art. He contributed to the old *Life* magazine and among the publications he illustrated was the *Decennial of Stanford Song*. That he had remained professionally active after leaving the Department of Agriculture is evident from the fact that last year he received the Leidy Medal Award of the Academy of Natural Sciences in Philadelphia in recognition of his studies. Survivors include his widow and two daughters.

1902

STRONER—Nellie May Smith Stroner died Oct. 1 in Auburn. Long residents of Palo Alto, she and her husband, James, had moved to Auburn following his retirement as a painting contractor in 1943. He died in 1952. Survivors include a sister and two brothers.

1903

DICKERSON—Delle Howard Dickerson died Aug. 30 in Berkeley of a coronary attack. Survivors include a niece, Alice Wolcott Hungate, '32.

HARPER—Paul Coates Harper died Aug. 18 in Seattle, Wash. He was 81. At the time of his death he was chairman of the board of William P. Harper & Son Investment Co. and a director of the Washington Title Insurance Co. He had long been active in alumni affairs and was a member of the Alumni Executive Board from 1948 to 1953. He had been a member of Stanford Associates since 1936 and was vice-chairman of the Seattle Stanford Conference in 1951. His fraternity affiliation was Delta Upsilon. A native of Ohio, he moved to Seattle in 1887. He joined his father in the investment business after leaving Stanford. Active in civic affairs, he had served on the Seattle school board and as a member of the executive committee of the Boy Scouts. He also had been associated with the Seattle Historical Society, the Civic Center Association, the Seattle Symphony, and the Civic Auditorium Commission. Survivors include his widow, a son, and two daughters.

KIMBLE—May G. Kimble died Aug. 28 in Palo Alto of a stroke. A native of Illinois, she had lived in Los Angeles for 70 years. For 15 years she taught chemistry at Los Angeles High School. At Stanford she joined Kappa Kappa Gamma sorority. Survivors include a sister, Ruby Kimble Jones, '06, and a nephew, Dr. Peter E. Jones, '42, MD '51, clinical instructor in medicine at the Stanford Medical School.

1906

HESS—Eva Roseberry Hess died May 14.

McCLYMONT—Grace Estelle Stafford McClymont died Oct. 5 in Las Vegas, Nev. She was 80. A native of Eureka, she had made her home in San Francisco for 45 years. Following the death of her husband in 1957 she had moved to San Mateo.

1907

RHYNE—Homer Rhyne died April 23.

1908

DWIGHT—Francis Bartow Dwight died Feb. 2. Survivors include his widow.

HART—James Vivian Hart died in June. Survivors include a son.

HEMPHILL—Eva Lois Hayslip Hemphill died Sept. 30 in Tustin, Calif. She was 77.

1912

HOWELL—Roberta Haslett Howell died Oct. 2 while vacationing in Honolulu. She was 72. A native of Alameda and member of a pioneer Bay Area family, she had lived in San Francisco for a number of years. Her husband, John Wesley Howell, '12, who died in 1951, was a former president of the San Francisco Chamber of Commerce. While at Stanford Mrs. Howell joined Kappa Kappa Gamma sorority. Survivors include a son, John Jr., '44; a daughter, Roberta Howell Dey, '40; a brother, Samuel M. Haslett Jr., '13; and a sister.

MOORE—Courtney Lee Moore died Sept. 24 in San Francisco. He was 74. A native of Colorado, he had spent his entire legal career in San Francisco. He was associated with the firm of Robinson and Herbert A. Leland. Survivors include his widow.

1913

RICHEY—Frank Herbert Richey, JD '17, died Aug. 24 in Kalispell, Mont., of an apparent heart attack. He was 72. A retired attorney, investment banker, and businessman, he had been Palo Alto's city historian since 1959. He served in the Navy during World War I, then began his legal career as assistant District Attorney of Merced County. Later he was legal counselor for the investment banking firm of Blythe-Witter Co. in San Francisco. In 1943 he became associated with the packing and canning industry in Monterey County. He retired in 1951 and returned to Palo Alto. Survivors include his widow, a daughter, and two sons, Willis, '47, and Frank Jr., '56.

SMITH—Warren Locke Smith died July 22 in Miranda, Calif. He was 75. A fruit rancher in Humboldt County for 47 years, he also served as a county agricultural inspector. He was a member of the board of trustees of South Fork High School for 19 years. Stanford friends will remember him as "Napoleon" Smith of the varsity rugby team and Block "S" Society. His widow, Beulah Whipple Smith, followed him in death on September 10. In their honor a memorial fund for medical research has been established at the Stanford School of Medicine. Survivors are two sons, including Gerould, '39, AM '40, PhD '46; two daughters; two brothers, Dr. Elmer W. Smith, '12, MD '15, and Dr. Harry J. Smith, '12, MD '15; and two sisters, including Mildred, '14, AM '15.

1919

AGUERREVERE—Enrique Aguerrevere died April 21 in Caracas, Venezuela. He was 66. He spent 11 years in Mexico, working in the oil industry, before returning to his native Venezuela. For a number of years he was a government official, serving in capacities such as Minister of Public Works, Minister of Development, and Ambassador to Mexico, Ecuador, and Panama. In his late years he had been a consulting engineer in Caracas. Survivors include his widow, three sons, three daughters, and 18 grandchildren.

1921

McGILLIVRAY—Harold Payne McGillivray died Sept. 3 in Sacramento of a heart attack.

He was 64. A native of Sacramento, he was vice-president and manager of the McGillivray Construction Co. a company founded in that city by his brother in 1916. He joined the firm following graduation from Stanford. While a student he was a member of the crew, Phi Kappa Sigma, and Phi Delta Phi legal fraternity. He was a member of the Bohemian Club. He served in the Navy during World War I. Survivors include his widow.

1923

KOLBERG—Erick Everett Kolberg died Oct. 10, 1961, in Phoenix, Ariz., of a heart ailment. He had coached athletics in Visalia, Ventura, and Santa Monica. At the time of his death he was a member of the faculty of Phoenix Union High School. At Stanford he was a member of Delta Tau Delta. Survivors include his widow, a son, and a brother, Wallace, '20.

LYNN—Sarah Edith Woerner Lynn died July 6.

1924

CAVANAUGH—Robert Daniel Cavanaugh died Aug. 20 in Los Angeles after a lingering illness. He was 59. He was manager of the investment department of Paine, Webber, Jackson, and Curtis, Beverly Hills, at the time of his death. He also was a board member of Don Bosco Technical High School, San Gabriel, which he helped found. He was a native of Ohio. Survivors include his widow and a daughter, Louise Patricia Cavanaugh Griffith, '57, AM '58.

1925

CALDWELL—George Wardrop Caldwell died Sept. 6 in Azusa, Calif. He was 59. A graduate of the University of Oregon Medical School, he had long practiced in Los Angeles County. He was a staff member of Beverly Community Hospital, Montebello. Survivors include his widow, a son, and a daughter.

SMITH—Norwood Browning Smith Jr. died Aug. 16 in Palo Alto after a long illness. He was 56. With Equitable Life Assurance Society of the U.S. for 29 years, he was regional loan supervisor, residential loan department, for nine Western states and Hawaii at the time of his death. He was a native of Los Angeles. Survivors include his widow and two daughters.

WRIGHT—William Lawton Wright died Sept. 3 in Glendale. A journalism major at Stanford, he was editor of the *Daily*, a member of Hammer and Coffin, on the board of editors of the *Illustrated Review*, and active in Rally Committee, and Sigma Delta Chi. His social fraternity was Kappa Alpha. Survivors include his widow, the former Katherine Capell, '26; a daughter, Ann Wright Hepp, '48; two sons, Thomas Lawton, '51, MS '52, and William Capell, '52; and 10 grandchildren.

1929

COLE—Andrew Morris Cole died Aug. 8 of a heart attack. He was 54. He was a member of a pioneer San Francisco family and an ardent patron of the arts and music. Twenty-nine years ago he founded the West's first diaper service, Dydee Wash Co., which currently services the entire Bay Area. Survivors include his widow, a son, three daughters, and his mother.

1938

FARISH—William Wheeler Farish died Sept. 10 in Palo Alto. He was 49. A native of St. Joseph, Mo., he for many years had operated a plantation in Mississippi where tung oil trees were grown for the paint industry. He had established permanent residence in Pebble Beach 12 years ago. He was an ardent golfer and had often competed in the state amateur golf tournament. Survivors include his widow; a son, William Jr., '62; two daughters, including Nancy, '56; his mother; and a sister.

1962

WEIRICK—Penelope Cameron Weirick died Sept. 5 in Palo Alto as the result of injuries incurred in an automobile accident in July. She was 23. Survivors include her parents, a daughter, a brother, and a sister.

1963

CORFINO—George Corfino died in July in Buenos Aires, Argentina, when he was asphyxiated by gas from a leaky heater. He was 21. Extremely interested in international affairs, he was spending the summer in Argentina teaching English to high school students. Last year he served as head of the Stanford Overseas Information Office of the Institute of International Relations. He edited the IIR student travel handbook, *The Vagabond*, and had traveled around the world after completing a session at Stanford-in-Germany in 1959. He was from Sherman Oaks. Survivors include his parents.

1965

NORTON—Moiya Virginia Norton was killed in an automobile accident Sept. 23 near Merced. She was 19. Survivors include her mother.

Education

COOPERRIDER—Albert Owen Cooperrider, Gr. '08, '28, died in January. Survivors include his widow, Lena Pearl Kennedy Cooperrider, Gr. '08, and a son, Kenneth Albert, '31.

Engineering

PETERSON—Thomas Franklin Peterson, Engr. '24, died Aug. 24 in Shaker Heights, Ohio, of a heart attack. He was 59. In 1948 he founded Preformed Line Products Co., Cleveland, and was president of the firm at the time of his death. The company holds more than 60 patents for helically-formed wire accessories used in the electrical power and communications industries. Last year he donated $230,000 to Stanford for a material science laboratory which will bear his name. He also had contributed to the Stanford overseas campus program and has supported four engineering scholarships. He was a member of Stanford Associates and head of the Cleveland PACE Committee. A native of Brooklyn, N.Y., he graduated from Cooper Union before coming to Stanford to work for his engineering degree. He worked for United States Steel before founding his firm. His professional affiliations were numerous and in 1957 he was awarded the Gano Dunn Medal for professional achievement by the Cooper Union Alumni Association. Survivors include his widow, a son, a daughter, and two sisters.

Humanities–Sciences

CANNADY—Daniel Aldredge Cannady, Gr. '33, died Nov. 2, 1961, in Roanoke, Va., of a cerebral hemorrhage.

CHAMBERLAIN—Percy Ira Chamberlain, AM '31, died Feb. 7 in Bakersfield of a heart attack. Survivors include his widow.

DRUJINA—Gleb Drujina, PhD '50, died July 18, 1961, of a heart attack. He was 59. Survivors include a brother.

HICKS—Dr. Charles Roger Hicks, AM '22, died Sept. 1 in Reno, Nev., following a lengthy illness. He was 74. A former head of the history and political science department at the University of Nevada, he had retired in 1959 after 35 years on the faculty. Dr. Hicks was a native of New York. He received his bachelor's degree from Clark University, Mass., and returned to that school for his doctorate. He was active in a number of professional and fraternal groups. The author of numerous articles, he also had lectured extensively in the field of world affairs. Survivors include his widow, the former Alice Toft, '24; a son; and a brother.

JOHNSON—Geneva Johnson, AM '17, died June 18 in Fullerton, Calif. She was 68. She had been a teacher in Fullerton for 36 years prior to her retirement in 1957. For 20 years she served as faculty adviser of the young Women's Christian Association at Fullerton Junior College.

Law

DOHERTY—Cyrus Joseph Doherty Jr., LLB '48, died April 26. He was 40.

MATTHIESSEN—Mark Martin Matthiessen, JD '11, died July 21 in Portland, Ore., after a long illness. He was 79. A native of Iowa, he had lived in Portland since 1911. For many years prior to his retirement in 1961 he had been associated with the law firm of Wood, Matthiessen, Wood & Tatum. He was active in a number of civic and fraternal groups. Survivors include his widow, the former Agnes Hutchins, '08, and a son.

TYE—Charles Woodrow Tye, LLM '36, died July 3 in Southern California. He had returned to California in 1958 after a number of years in the practice of law in Baltimore and New York City. At the time of his death he was practicing in Arcadia. Survivors include his widow, a daughter, and three sisters.

Medicine

GILBERT—Dr. Ramon Augustus Gilbert, MD '15, died May 31 in San Francisco of a heart attack. Survivors include a daughter, Barbara Gilbert Iversen, '40.

MORRISON—Dr. Norman Donald Morrison, MD '04, died May 27 in San Mateo of a heart attack. He was 86. Dr. Morrison had long practiced medicine in San Mateo, where he also had served as a health commissioner and a member of the school board. He retired 2½ years ago. Survivors include his widow and five sons, including Gordon, '27, and Richard, '36, MD '41.

How to Succeed in College Without Really Studying

HAS THE *Review* turned soft on sophomorics? No, it's quite by accident that this issue is persistently subversive—of the belief that each youth is here to study and by golly he'd better not fiddle with anything else until *after* he converts about a thousand hours of nose-grinding into a Phi Beta Kappa key.

In case you haven't already noticed: Dwight Allen says on page 4 that students are often their own best and most effective teachers; Sandy Dornbusch (in "This Oyster is Their World," starting on page 18) says that when a student is *already* doing relatively well academically, the study of textbooks isn't likely to be the best way to invest any additional time; Don Tresidder (quoted by Dave Jacobson on page 24) says in an old letter to a student that the study of people is at least as important as the study of books.

From time to time Wallace Sterling has made remarks not altogether incompatible. And in the May issue Chester Berry (in "Coffee and Culture") said his aim was to make the Tresidder Memorial Union as important an intellectual influence as the classroom.

Learning becomes fun and fun isn't work—which justifies the heading of this column, I hope.

These ideas do not represent a revolution in pedagogics. There is plenty of precedent back over the centuries, and if Socrates didn't preach the same thing he at least practiced it. His seminars were more like a bull session at the Union than anything you're likely to find in a Quad classroom.

WITH TREPIDATION one suggests that the scholarly gentlemen are reaching toward that concept of "well-roundedness" so passionately embraced by alumni—the trepidation stemming from the fact that this term has become a red flag for our academic bulls, who retort to it with thrusts about the logical end of well-roundedness being a perfect cipher—a fine squelch, but not calculated to increase understanding.

Professors react not to the term itself but to the meaning the user puts on it, which has been eroded to cover lack of intellectual accomplishment; even ability—as in advocating admission of applicants who do not meet the competition, or as in justifying a fraternity's having the lowest grade point average on campus. So we need a new catchword to denote a mind active and inquiring, inside and outside the classroom.

One suggests that our students are well ahead of the learned gentlemen—as they usually are on such things. A great deal of nonsense has been written about student apathy in the past few years; as I may have said before, the younger generation is merely discriminating in what it is apathetic about.

SOMETHING about what the students are doing is conveyed in our brief account of Project Da Vinci (back cover) and our description of the intellectual ferment at the Union (page 26). Good facilities help, but the most important ingredient is desire.

Pranks and general nonsense remain, of course; being intelligent, and busy with large concerns, doesn't mean stomping around with a long face all the time; the smarter one is, the more fun he knows how to have.

One example is the "political" bumper strip circulated by the incumbent student financial manager and his predecessor. The accompanying note was a two-edged satirical comment on current student concerns:

"Few people are acquainted with the position of Student Financial Manager—although it is surprisingly similar to many offices in the University administration . . . after a year on the job the incumbent is suspicious . . . and of course an entrenched conservative.

"At times, though, the position provides unusual insight into University and general public affairs. Two items of this nature have come to our attention. . . :

"1. Due to the University policy concerning partisan political activity we have come to agree with our fellow students that we must act, bringing our full weight to bear in profound political matters which vitally concern us all.

"2. We feel that slogans used in today's election campaigns are getting out of hand. Such as 'Keep America Safe for Democracy.' And 'Keep the Library Lawn Safe for "Turn Toward Peace."' And so on.

"We feel it our duty to act, and with our usual humility respond to the call with the enclosed . . ."

You see, even the pranks reflect involvement in life, both on the campus and far beyond it.

Dan Endsley

Take 10... and think!

It's so easy to let things go . . . to postpone the things you know you ought to take care of. Your family's future security, for instance.

If you have procrastinated, why don't you take 10 right now and talk with a CML man. He can help you arrive at a sensible answer to the question, how much and what kind of life insurance should you own? You'll find him sympathetic, understanding, and exceptionally able . . . a good man to work with.

CML agents are trained to fit life insurance into the total family picture . . . to shape it to the needs and dreams of each member . . . to coordinate its values with the family's other assets. Furthermore, they're trained to keep their clients' financial plans always in tune with their changing requirements. You'll find the CML man helpful to know.

Dividends paid to policyholders for 116 years

Owned by its policyholders, CML provides high quality life insurance at low cost and gives personal service through more than 300 offices in the United States.

Connecticut Mutual Life

INSURANCE COMPANY • HARTFORD

Your fellow alumni who are now CML field representatives

Henry W. Bent	'40	Los Angeles
James F. Ramsey, Jr., CLU	'51	Skokie, Illinois
David M. Thompson, CLU	'33	Los Angeles

STANFORD COLLECTION 738-2
ATTN. RUTH SCIBIRD
STANFORD UNIV. LIBR. C
STANFORD, CALIF.

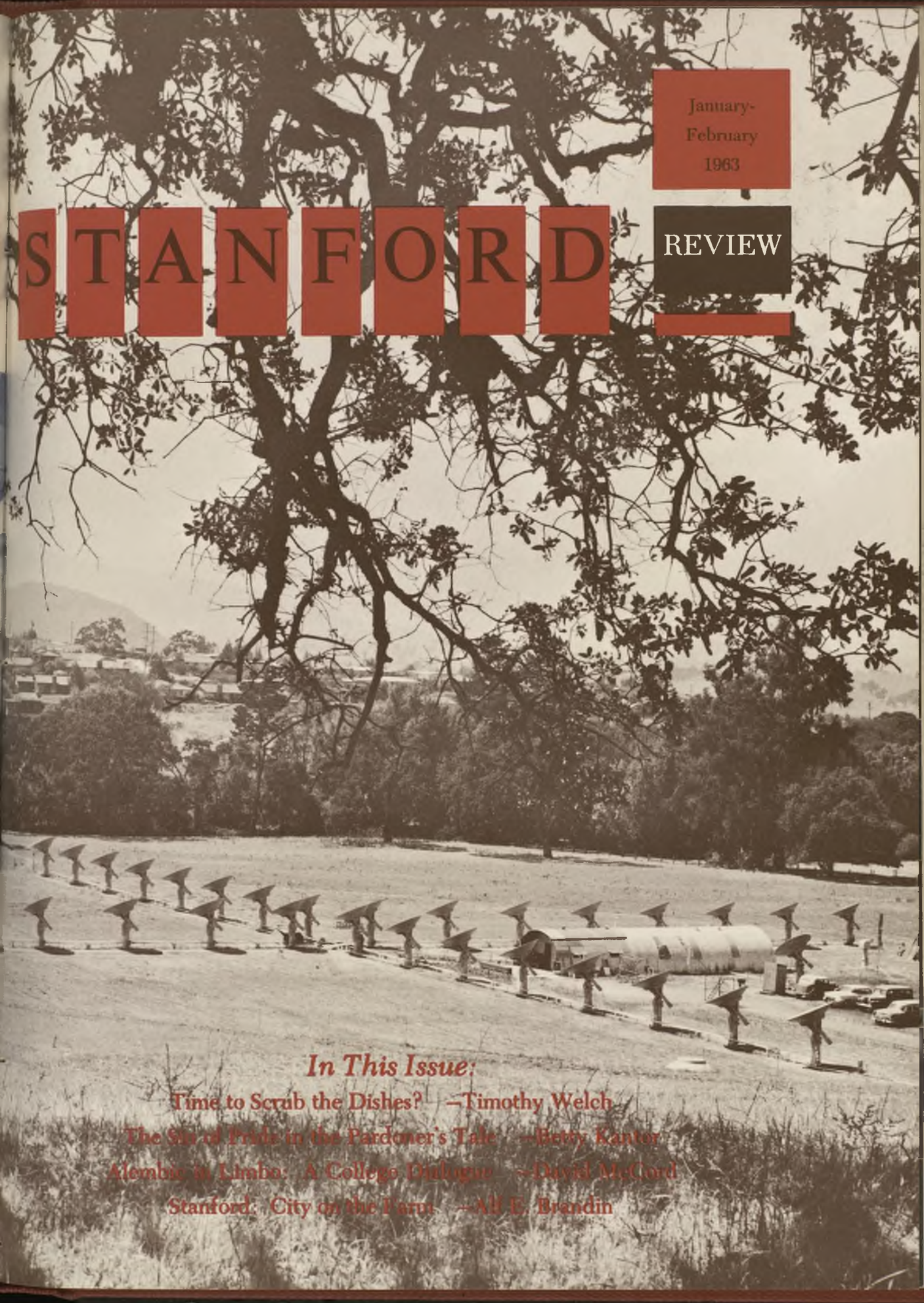
All Tresidder Memorial Union photos in this issue provided by Stanford News and Publications Office

RENAISSANCE MAN, and his prototype Leonardo, still excite the imagination. Such versatility of accomplishment may be dead in our sophisticated culture—but versatility of *interest* is not; Leonardo's cultural curiosity remains an approachable ideal.

Cultural curiosity is the *leitmotif* of the Tresidder Memorial Union program (see pp. 24–26). Since no other historical figure could symbolize it so well, students under the chairmanship of Rene Gorman "introduced" the new Union to its constituency with Project Da Vinci.

The exhibits could have carried the show all by themselves: reproductions of sketches, drawings, and paintings; and 35 scale models (loaned by IBM) of his inventions—flying machine, parachute, helicopter, military tank, steam artillery, the forerunners of the automobile's transmission and differential, and many others. But they were backed up by an award-winning film, plus discussions of many facets of Leonardo's genius: artist, author, engineer, anatomist, inventor, architect.

Hundreds of hours of student effort made this month-long Festival of Vinciana perhaps the most effective sustained student effort this campus has ever seen.



January-
February
1963

STANFORD REVIEW

In This Issue:

Time to Scrub the Dishes? —Timothy Welch
The Sin of Pride in the Pardoner's Tale —Betty Kantor
Alembic in Limbo: A College Dialogue —David McCord
Stanford: City on the Farm —Alf E. Brandin

Published by the Stanford Alumni Association

January-February 1963

STANFORD REVIEW

Vol. LXIV No. 3

In This Issue:

Stanford: City on the Farm
An operational report by Alf E. Brandin 2

Time to Scrub the Dishes?
A trip to the stars with Timothy Welch 18

22 Alembic in Limbo
A college dialogue by David McCord

24 The Pardoner's Sin of Pride
A Chaucerian excursion by Betty Kantor

DEPARTMENTS • *The Campus Scene*, page 3 • *Dave Jacobson's Column*, page 7 • *Club Calendar*, page 8 *Stanford Family Forum*, page 9 • *Alumni Newsmakers*, page 12 • *Faculty and Staff*, page 14 *Book Reviews*, page 27 • *Strictly Personal*, page 30 • *In Memoriam*, page 40 • *Editor's Column*, page 48

THE STANFORD REVIEW *is published bi-monthly at Stanford University (Palo Alto) with three additional newspaper supplements issued in Autumn, Winter, and Spring under the subtitle of* ALUMNI ALMANAC. *Second Class postage paid at Palo Alto, California. Subscription price: $6 per year, payable in advance, or through membership in the Stanford Alumni Association.*

DAN ENDSLEY, '47, *Editor and Manager*
KAY DALEY, '48, *Activities Editor*

Send news notes and other editorial material, and all inquiries about advertising rates and deadlines, to the Stanford Review, Bowman Alumni House, Stanford.

Change of Address: Notify Review Circulation Department, Bowman Alumni House, Stanford, Calif.

Stanford Alumni Association

GUY R. NEELY, '38, *President*

H. MELVIN SWIFT JR., '48, LLB '49, *First Vice President*

BETTY JEAN CALFEE MULVANA, '45, *Second Vice President*

BOB PIERCE, '49, *Director*

All persons who have matriculated at Stanford University are eligible for membership in the Stanford Alumni Association. Dues of the Association (a non-profit corporation): Annual, $6; life, $115; student special life rate, $100. All privileges begin with initial payment. Associate membership (for second member of a family at the same address as a full member, carries all privileges except Review subscription): Annual, $4; life, $75; student special life rate, $65.

Members of the Alumni Executive Board:
L. HAROLD ANDERSON, '23, Palo Alto
EUNICE FORCE BARKELL, '33, Berkeley
LEWIS L. FENTON, '48, Monterey
LAWRENCE S. FLETCHER, '28, JD '30, Piedmont
Brig. Gen. DON D. FLICKINGER, '29, MD '33, Washington, D.C.
SEBELLE HARDEN VON HAFFTEN, '44, San Francisco
DOROTHY FITGER HAIGHT, '50, Beverly Hills
JAMES C. HAUGH, '42, San Diego
RUTH ELIZABETH TUTHILL HAWES, '28, Portland, Ore.
JOHN B. ISAACS, '31, Los Angeles
WARD C. KREBS, '34, Hillsborough
PAUL V. LORTON, '31, Atherton
JAMES B. MCKINNEY, '46, LLB '48, Sacramento
JOHN N. MITCHELL, '43, La Cañada
STUART W. MORSHEAD, '50, MBA '52, San Francisco
BETTY JEAN CALFEE MULVANA, '45, Bakersfield
GUY R. NEELY, '38, Phoenix
MIRIAM STROUT PERELLI-MINETTI, '32, MBA '34, Hillsborough
H. MELVIN SWIFT JR., '48, LLB '49, Sherman Oaks
LYLE M. NELSON, University Liaison Officer, Stanford

YOUNG (35), successful (his Utah State team lost but one home game in four years), energetic (one of the West's top recruiters), erstwhile enemy (played for Waldorf at Cal): John Ralston, Stanford's new head football coach. One of select few who survived weeks of careful screening, Ralston was willing to take professional risk of coaching at a school where academic values are paramount.

In order to carry out its primary purpose, education, Stanford must maintain and operate a complete network of supporting activities. It is not a city, but has many of the problems of a good-sized city. It is not a business, yet has many of the problems of a *big* business.

The University compares with a city because it has a police department, a fire department, a post office, over 100 miles of road (which it maintains without gas tax support), a residential community of 400 homes, a water system, parking for 5,000 automobiles, a non-denominational church, a museum, an art gallery, libraries, a riding stable, a golf course, and jointly owns a hospital with 450 beds.

It compares with a business because we have employees, we pay taxes, we carry insurance, we buy supplies, and we operate on a budget.

STANFORD: City on the Farm

By Alf E. Brandin
Vice President
for Business Affairs

I'd like to give you some figures to demonstrate the magnitude of the operation. Stanford has over 5,000 employees. Students enrolled number 9,963, and over 6,000 students, faculty, and administrators are in residence on the campus. We manage a real estate domain of 8,800 acres and—this may be a surprise to you—*we pay annual real property taxes of $742,000.* Approximately 15,000 persons are employed by others on Stanford property—in the professional, commercial, and industrial park areas.

Stanford is not in the construction business, but we had an average of 25 major construction jobs in progress some place on the campus throughout 1962. During the past fiscal year we signed construction contracts totaling $11,283,000. We have a full-time planning staff of twenty people to assist in the orderly development of the educational plant and the University lands designated for income-producing purposes.

Last year we purchased $13 million worth of goods and supplies to support the educational and research projects. The Stores Department inventory averages $300,000, which it turns over four times a year for a gross volume of $1,200,000. Our dining halls serve 2,228,440 student meals for a gross income of $2,354,000. Our residences house 4,350 students for a gross income of $1,980,000.

Our Stanford University Press had gross sales last year of $1,344,000. Our photo and mimeograph service for faculty and students has (*Continued on page 47*)

THE CAMPUS SCENE

Terman to Speak March 5

FOUNDER'S WEEK activities this year will feature the second annual Distinguished Alumnus lecture, which replaces the March 5 Tuesday Evening Series program. Speaker will be Provost Frederick E. Terman, '20; his topic, "Scientific and Engineering Manpower in a Competitive World."

Founder's Day—Leland Stanford's birthday, March 9—is traditionally marked by Memorial Church services on the nearest Sunday.

New 'Home' for Foreign Students

TECHNICALLY homeless since the original International Center burned beyond repair more than a year ago, foreign students will soon move to a renovated Zeta Psi fraternity house. The need for such a headquarters was dramatized in a recent announcement by Dr. Werner Warmbrunn, foreign student adviser, noting that the number of students from other countries rose almost 20 per cent this academic year (653 as compared to 548). Seventy-one countries are represented.

Before the Zete house becomes the I Center there will be a remodeling job of some $150,000, financed by private gifts. It is hoped that work can be completed by next fall. The two-story building will provide office space for the Community Committee, the Foreign Student Adviser, and the Office for Foreign Visitors. In addition, it will offer lounges, dining area, music room, library, study, and an apartment for the resident host couple. There will be a suite for foreign visitors. Once again there will be room for an outdoor café—a project most successful at the old headquarters.

China has replaced India as the country sending the largest number of students to Stanford, according to Dr. Warmbrunn's report. The top nine, with the current enrollment, are China (73), Canada (64), India (60), United Kingdom (46), Japan (29), France (29), Germany (28), Norway (18), and Brazil (15). The majority of foreign students are men. More than 87 per cent seek advanced degrees in electrical and civil engineering and the Graduate School of Business.

Two Areas Show 'Red Myth'

RESIDENTS of the Bay Area and of San Diego currently have the opportunity to view a 13-week Stanford-produced television series entitled "The Red Myth: A History of Communism from Marx to Khrushchev." Showings in San Francisco started Jan. 8 and will continue over KQED (Channel 9) at 7:30 p.m. on Tuesdays. In San Diego the series started Jan. 14. It is shown over KOGO (Channel 10) at 10:30 p.m. each Monday.

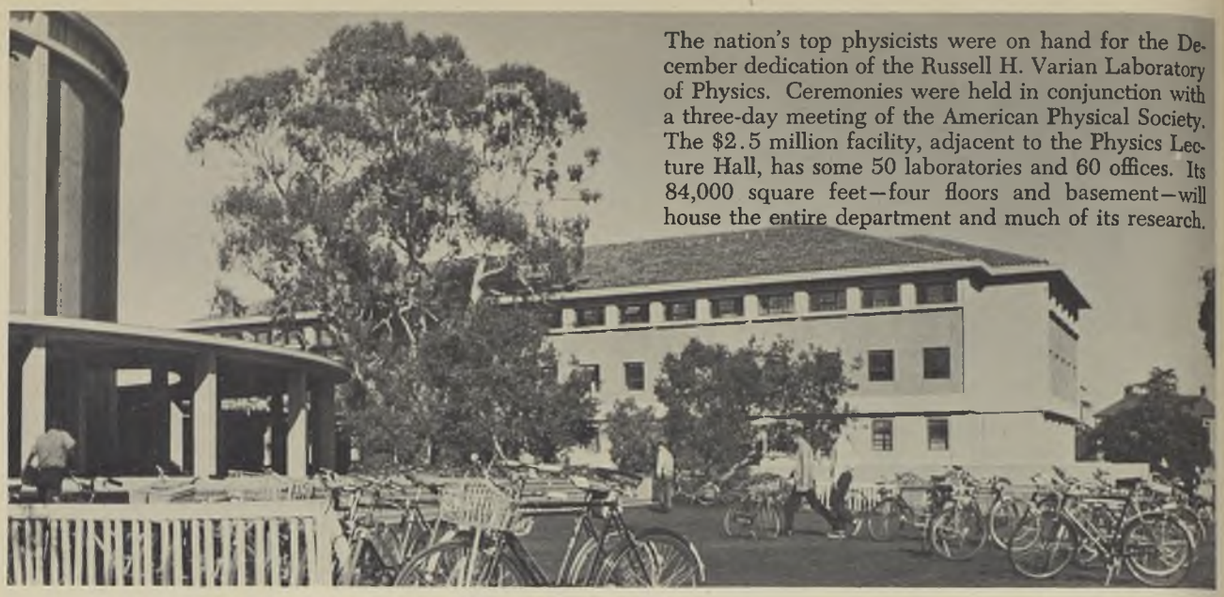
Prof. Witold S. Sworakowski of the Hoover Institution initiated the series and serves as its host. The programs were developed in cooperation with the National Educational Radio and Television Center.

A narrative adaptation of scripts of the series has been prepared in booklet form. The 120-page booklet is available for $1.00 from the Publications Department, Hoover Institution.

Especially for the Alumnus-Artist

ALUMNI WITH a creative flair who are interested in having their work exhibited on campus are asked to

The 135-foot schooner Te Vega is in San Diego outfitting as seagoing classroom for Stanford's Hopkins Marine Station. Next summer the ship, operated under more than $700,000 in National Science Foundation grants, sails for Indian Ocean to take part in three-year research expedition. Participating faculty and students will serve about three months each, shuttling to and from ship by air.



The nation's top physicists were on hand for the December dedication of the Russell H. Varian Laboratory of Physics. Ceremonies were held in conjunction with a three-day meeting of the American Physical Society. The $2.5 million facility, adjacent to the Physics Lecture Hall, has some 50 laboratories and 60 offices. Its 84,000 square feet—four floors and basement—will house the entire department and much of its research.

write to the Cultural Arts Division of Tresidder Memorial Union. The student group is planning an invitational Alumni Art Exhibit May 18 through June 10. The work will be juried, with the possibility of a purchase prize, since the Union is interested in building up a permanent collection. Timing has been selected for the benefit of those attending the Campus Conference.

The exhibit will be open to any alumnus who is now a professional artist, according to Penny Pringle of the Cultural Arts Division. Due to limited space, the jury reserves the right of pre-selection. Those in the Bay Area are particularly encouraged to participate and are asked to send photographs or descriptions of their work (painting, sculpture, photography, mosaic, or ceramic work) before March 10 to Miss Pringle, Cultural Arts Division, Tresidder Union, Box 6508, Stanford. All items will be insured from the moment they are shipped.

Many Alumni Serving in Peace Corps

SIXTY STANFORD ALUMNI currently are serving in the Peace Corps, according to "The Peace Corps Volunteer," a quarterly statistical summary. Only five colleges have provided more personnel, the University of California ranking first with 123.

Other schools from California in the top 15 are UCLA (67) and San Jose State (42). Californians far outnumber representatives of other states as PCV's, with a total of 519 as of Sept. 30. New York ranked second with 385.

More Room for the Law School

CONSTRUCTION is now under way on the remodeling of the old Law School Annex into a new south wing. The building, now a main (*Continued on page 6*)

Muzzled Students Mutter

TENSION between student leaders and Stanford Administration, eased briefly by appointment of students to standing committees of the University, suddenly is as intense as ever following disagreement over proper definition of the word "partisan" and the right of student organizations to take stands on public issues.

The immediate point is the current investigation of Berkeley FM radio station KPFA by a U.S. Senate subcommittee headed by Sen. Thomas Dodd of Connecticut. KPFA and its affiliates have long provided a forum for almost every conceivable view, popular and unpopular, and officials of the organization have expressed fear that the investigation is an attempt to limit freedom of discussion. Although subcommittee spokesmen have carefully avoided any statements pro or con, many listeners and friends of KPFA share this fear.

Armin Rosencranz, in his official capacity as ASSU president, recently wrote a letter to Senator Dodd praising the function fulfilled by KPFA and stating his hope that the investigation was not a threat to freedom of expression. The student legislature then passed a supporting resolution.

Shortly thereafter Dean of Students H. Donald Winbigler, specifically noting that he was acting by order of President Sterling, notified student leaders that taking such positions constituted partisan political activity and thus, without prior consent of the Administration, was a violation of Stanford policy.

The muzzle didn't prevent biting controversy transcending the matter of the KPFA probe. Opinion among students and faculty is far from unanimous, some maintaining that the prohibition is incompatible with the motto *Die Luft der Freiheit weht*, and others listing a smorgasbord of reasons why student interposition in "outside" affairs is both unnecessary and unwise. As a result, the issue of "outside" issues has become an "inside" issue. A key point of difference is whether ASSU officials, usually elected by a minority, can accurately represent student opinion.

Feeding fire...with water

Sounds impossible . . . yet one of today's most useful flames thrives on water. When water comes in contact with a gray, rock-like substance called calcium carbide, acetylene gas is born—fuel for the white-hot oxy-acetylene flame that can slice through steel and other metals. ▶ Just as it burns so readily, acetylene combines freely with many chemicals. That's why it has become the raw material for a variety of things you use every day. Among its descendants are the versatile vinyl plastics . . . long-wearing, wrinkle-resistant DYNEL modacrylic fibers . . . non-flammable dry-cleaning solvents . . . and a host of chemicals that bring you synthetic rubber, wonder drugs, and those paints that dry in minutes to a beautiful, washable finish. ▶ To meet the fast-growing needs of industry, the people of Union Carbide produce thousands of tons of calcium carbide and billions of cubic feet of acetylene every year. It is typical of the hundreds of beneficial products that have come forth during more than half a century of research into the basic elements of nature.

UNION CARBIDE

A HAND IN THINGS TO COME

WRITE *for "The Exciting Universe of Union Carbide" Booklet P, Union Carbide Corporation, 270 Park Avenue, New York 17, N. Y. In Canada, Union Carbide Canada Limited, Toronto. "Dynel" is a trade mark of Union Carbide Corporation.*

Quotes From the Campus

Stanford has done a commendable job in creating a community asset [the Industrial Park, which has more than 40 firms with a total annual payroll well above $50 million] which not only benefits the City of Palo Alto financially, but through careful planning and rigid controls also fits harmoniously into the existing land use pattern. —*Statement of Urban Land Institute*

The single most important factor [in the clustering of the precision-instrument manufacturing industry into only 19 of the 3,050 U.S. counties], particularly for those establishments producing complex instruments and heavily engaged in research and development, is the need to acquire top quality engineers. Members of the industry believe that a small number of major universities—principally Massachusetts Institute of Technology, Harvard, Illinois Institute of Technology, California Institute of Technology, and Stanford—are the major sources of these top quality men. Since these men often prefer to live in the area of one of these universities, clustering has occurred around them. This preference by professionals is complemented by the desire of management people, who also prefer this type of area.—*U.S. Department of Commerce study by Robert G. Spiegelman, Stanford Research Institute economist*

A Madame Curie is conspicuous by her rarity. Woman's famous intuition doesn't appear to have helped her much in science, even in its creative aspects where intuition is required. In letters, where her special talents are presumed to lie, we have more creative male writers than females.—*Eleanor E. Maccoby, professor of psychology, at recent U.C. symposium*, Man and Civilization: The Potential of Woman

Stanford strives for the best in all fields of endeavor. As it is in academics, it should also be in athletics.—*John Ralston, new head football coach*

The Campus Scene

floor and partial basement, will be converted into three floors, all connecting to the main Law School. Into the basement will go offices and workrooms for law student organizations and activities. Remaining floors will provide faculty offices, conference and seminar rooms, and secretarial space. The new structure will relieve overcrowding of the main building.

Target date for completion of the $500,000 project is Sept. 1. Work is being done by the San Francisco firm of Wagner and Martinez.

International Program Receives Grant

STANFORD'S international studies program will be considerably strengthened as the result of a $2.5 million grant from the Ford Foundation. According to Carl B. Spaeth, chairman of the International Studies Committee, the grant will support academic programs concerning East Asia, Western Europe, the Communist bloc, and Africa. It will also permit expanded professional programs in international conflict and the role of communications, economics, education, agriculture, and law in developing societies.

More specifically, Stanford will:

Create a continuing European studies seminar, involving faculty and students in the social sciences and humanities in detailed study of a selected problem every year.

Conduct comparative studies of selected activities and institutions found in Communist bloc countries.

Appoint additional faculty members in East Asian studies.

Continue research on the economic impact of Portuguese policy in Africa.

Selected projects in the Institute for Communication Research, Studies for International Conflict and Integration, Food Research Institute, Research Center for Economic Growth, and the Schools of Education and Law also will receive support.

Computer Study: How Humans Learn

A FIVE-YEAR GRANT of $1,050,000—one of the largest ever made by the Carnegie Corporation to an American university—has been made to Stanford to support a computer-based learning and teaching laboratory.

According to Prof. Patrick Suppes, who heads Stanford's Institute for Mathematical Studies in the Social Sciences, electric typewriters, and audio and visual equipment will be used to communicate between experimental subjects and the computer. The instantly available summary of individual progress, Suppes explained, will allow researchers to adjust the program to suit the student as he goes along, even in mid-lesson.

Thus the new laboratory is expected to provide insight to a depth and intensity never before known into how human beings learn; develop a normative theory of the learning process; and specifically, shed new light on how individuals learn mathematics and language.

Curtice to Coach at Santa Barbara

JACK CURTICE, in charge of Stanford's football program for the past five years, has been named head football coach at the University of California's Santa Barbara campus. A Los Angeles report, which the principals neither confirm nor deny, states that UCLA coach Billy Barnes is slated to become athletic director within a couple of years and wants Curtice, a close friend, to succeed him as the Bruin head man.

Get me to the Church...

ON TIME—was the plea of Alfred P. Doolittle. What church I don't know. But Lerner and Lowe tell me he made it—on time.

As for Stanford Memorial Church there are those who do and those who don't.

Let's take a "don't" first. I've heard of only one couple who failed. It's hearsay, but my informant said it was fact, and, knowing him as I do wouldn't question his veracity by as much as a raised eyebrow.

DAVID JACOBSON

It happened many years ago. A Boston couple, whose avocation was visiting churches of unusual beauty and interest, were in the West for the first time. In San Francisco they were told Memorial Church should not be missed, so they hired a car and came to the campus.

The clock was just striking five when they were met at the front door of the Church by the caretaker who told them he was locking up for the night.

"Please let us in," the visitors begged. "We came all the way from Boston to see this Church."

"Well then," retorted the caretaker, "it's too bad you didn't start a few minutes earlier."

On the bright side are those who got there on time. The long bridal procession to the Church began just sixty years ago. It was led by William Holt and Ethel Rhodes who were married there on February 23, 1903.

Reminded of that, I stopped by the Vestry a few days ago to take a look at the Register. Eva Marie Roseberry and Frank L. Hess were No. 2. The book said Nan Drury and Lester Summerfield were No. 17; but in Reno on January 11 Les told me that although they had been in the Church for a talk with Dr. Gardner *that* day, the wedding was held, not in the Church, but in the Theta house.

Frank and Katherine Ames Taylor were fiftieth in line; Mildred Ashworth and I were 1,030; and as of January 12 the number was up to 3,761.

That's quite a few. Even so, it's just a fraction of those who derive happiness and comfort—spiritual, material, or filial—from the building of which Mrs. Stanford said, ". . . while my whole heart is in the University, my soul is in that Church."

Devout Christian that she was, I think her broad vision, her greatness, is best exemplified in these words of hers in the October 3, 1902, amendment to the Founding Grant: ". . . no profession of religious faith or belief shall be exacted of anyone for any purposes."

On time? She was ahead of hers.

David S Jacobson

GENERAL SECRETARY

The 1963 Stanford Coaching Camp Ninth Year

"Confidence Through Athletics"

A Two-Week Sports Vacation for Your Boy on the Stanford University Campus

Daily sports instruction for boys 9–14 by the entire Stanford coaching staff:

Gymnastics, Boxing, Swimming, Water Polo, Archery, Football, Bowling, Basketball, Baseball, Track, Wrestling, Tennis

The Camp will use all Stanford facilities. Campers live at Toyon, have meals at Eating Clubs (four large kitchens).

Choice of three sessions:

June 23–July 6 **July 7–July 20** **July 21–August 3**

Complete Cost: Boarders $157.00, Day Students $73.00. Applications and brochures mailed March 1. To be on mailing list write to:

Howie Dallmar, Director, The Stanford Coaching Camp
Department of Athletics, Stanford, California

SPECIAL OFFER TO ALUMNI OF STANFORD

GOING TO EUROPE AND PLANNING TO LEASE OR BUY

A CAR IN EUROPE

• Peugeot • Mercedes
• Renault • VW
AND ALL OTHER MAKES

•

Special Savings to the alumni group *in addition* to substantial savings on import duty and excise taxes.

•

Write Ed Sloane for details and Brochure SW
This offer is made
on the exclusive responsibility of

CAR-TOURS in Europe

2 EAST 46th STREET, N.Y. 17, N.Y.
PLaza 1-3550 (212 PL 1-3550)

REALTORS

HOMES & INVESTMENTS
INSURANCE
MORTGAGE LOANS
PROPERTY MANAGEMENT

9 Stanford grads associated with

HARE, BREWER & KELLEY, INC.

Since 1925

DA 3-5155 ■ 525 University Ave., Palo Alto

Personalized Travel Counseling

Leo T. Sides

THE TRAVEL SERVICE, INC.
Shopping Center at Stanford
Palo Alto, California
Davenport 4-1691

We Show You How To Go

CLUB CALENDAR

Wednesday, Feb. 20

EAST BAY MEN—Luncheon Meeting, 12:00 Noon, Peluso's—Dr. Leon Festinger, professor of psychology, speaker.

Wednesday, Feb. 27

SAN FRANCISCO MEN—Luncheon Meeting, 12:00 Noon, Leopard Cafe—Speaker to be announced.

Friday, March 1

STANFORD MOTHERS' CLUB OF WASHINGTON—Evening meeting with Dr. Robert McAfee Brown, professor of religion, as the speaker. For further information contact Mrs. John A. Taylor, 300 Scenic Way, Kent, Wash.

Saturday, March 2

SOUTHERN CALIFORNIA JUNIOR ALUMNI—Annual Basketball Brawl—the day of the USC-Stanford Basketball Game. Seats have been reserved in a block, and those not receiving notices should contact Gordon Jones, Box 17514, Los Angeles 17, for information.
SEATTLE STANFORD CONFERENCE—at the Edgewater Inn.

Sunday, March 3

PORTLAND STANFORD CONFERENCE—at the Sheraton-Portland.

Wednesday, March 6

EAST BAY MEN—Luncheon Meeting, 12:00 Noon, at Peluso's—Douglas Bowden, medical student and former exchange student to Russia, speaker.

Friday, March 8

LOS ANGELES—Dinner preceding the Stanford-UCLA Basketball Game—on West Side.

Sunday, March 10

SACRAMENTO STANFORD CONFERENCE—at the El Dorado Hotel.

Tuesday, March 12

PASADENA WOMEN AND PASADENA WOMEN JUNIORS—Evening Meeting at home of Mrs. H. Safford Nye, 1025 Avondale—Dean of Women Lucile Allen, speaker.

Monday, March 18, or *Tuesday, March 19*

TOKYO—Founders' Day Dinner—Alumni Director Robert Pierce to be present.

Wednesday, March 20

EAST BAY MEN—Luncheon Meeting, 12:00 Noon, Peluso's—Dr. Stefan Possony of Hoover Institution, speaker.

Saturday, March 23

HONOLULU STANFORD CONFERENCE—at the Princess Kaiulani.
DALLAS—Meeting with Dean of Students H. Donald Winbigler.

Sunday, March 24

NEW ORLEANS—Meeting of alumni with Dean of Students H. Donald Winbigler. For information contact Samuel Grey Taylor Jr., 310 St. Charles Ave.

Monday, March 25

ATLANTA—Meeting with Dean of Students H. Donald Winbigler.

Wednesday, March 27

ST. LOUIS—Meeting with Dean of Students H. Donald Winbigler.
SAN FRANCISCO—Luncheon Meeting, 12:00 Noon, Leopard Cafe—Speaker to be announced.

The Stanford Family Forum

'Sour Grapes of Wrath'

IT SEEMS TO ME that your comments on Steinbeck [November-December issue] made a good beginning on the restoration of common justice at Stanford for a "stepson," John Steinbeck, who has reached an "honor point" summit in literary achievement far above the potentialities of "sour grapes of wrath" critics wherever they may be teaching "how-to-do-it" to people of "unlimited perspicacity" who agree with them.

Seriously, all verbally glazed sneers in public prints are well within the rights of critics, provided they are within the law. Stanford University, though, is an institution of "striking excellence," not a prestige-machine for striking, either at its sons or its stepsons . . .

Mr. Steinbeck is an individual of dignity, a man who undoubtedly can be hurt by scorn just as Jack London felt a professorial sneer before he walked out at U.C. Stanford, an institution of impressive dignity, has reason to be proud that Steinbeck was once a student. Let the people of "unlimited perspicacity" write as they wish, of course, but the millions who have enjoyed Steinbeck's stories may be far more realistic in accepting their human limitations without playing the role of God. Either way, the articles about "Books and Authors" were excellent.

ARTHUR ROY WAGNER, AM '37
School Principal

PROUD AS I AM of my alma mater, I can only feel bitterly ashamed of the voices of pygmies or the shameful silence with which our faculty seems to have greeted the honor given John Steinbeck by the Nobel committee. It certainly warmed my heart, then, to read Dan Endsley's "Steinbeck: A Prophet Without Honor." Steinbeck, however, *is* with honor among those who really count: the millions around the world who read and love his books. Some of Bach's greatest masterpieces were written for church congregations, not for music critics.

Steinbeck himself once wrote that the only feeling he had toward critics—who had rated his first book as zero, and every subsequent book as somewhat less than its predecessor—was one of sadness that it was to these men entrusted to bring a love of letters to young students.

Endsley mentions an unnamed member of the English (*Continued on next page*)

BUSINESS AND PROFESSIONAL DIRECTORY

SHEARSON, HAMMILL & CO.
Founded 1902
Members New York Stock Exchange and other leading Stock Exchanges
SANTA BARBARA
1007 Anacapa Street • Woodland 5-8571
FRANCIS B. MANCHESTER '26, *Resident Manager*
Complete Brokerage Facilities • Professional Investment Management Service

"SERGENERAL"
A limited company of
COLOMBIA-SOUTH AMERICA
PROPERTY MANAGEMENT
INTERNATIONAL TRADE COUNSELORS
Commerce and Industry Studies
Tax and Exchange Problems
U.S. residents receive important U.S. tax exemptions on Colombian realty holdings.
Inquiries invited.
Bank References in California, New York, South America
Air Mail Box 1561 — Cali, Colombia
Cables: "Sergeneral — Cali"
FRED W. PEARMAN '34
Partner and Manager

LEVISON BROTHERS
General Insurance Brokers
Providing Our Clients Analytical and Objective Insurance Service
Robert M. Levison, '21
Robert M. Levison, Jr., '48
Douglas M. Heller, '53, M.B.A. '57
233 Sansome St. San Francisco 4
GArfield 1-4221

Palo Alto Transfer and Storage Company
AGENT ALLIED VAN LINES, INC.
Serving Stanford since 1902
J. D. FESSIO, '34
Vice-President Sales and Service
Palo Alto: 151 Homer Ave. DA 5-0061
Sunnyvale: 360 E. Evelyn Ave. RE 9-4700

SERVICES FOR EVALUATION, DEVELOPMENT, AND UTILIZATION OF NATURAL RESOURCES
Carroll G. Bradberry & Associates
CONSULTING ENGINEERS
LOS ALTOS • CALIFORNIA
Land–Water–Petroleum–Minerals

BUICK—
or RAMBLER—
ANYONE?
"BONES" HAMILTON
5747 Van Nuys Blvd. TRiangle 3-1177
VAN NUYS STate 5-7423

Edwin C. Porter, '43 William F. Hooper, '44
PORTER-HOOPER & CO.
Insurance Brokers and Consultants
204 S. Beverly Drive Beverly Hills, California
Crestview 5-4329 Bradshaw 2-2714

Parsons Optical LABORATORIES
• dispensing opticians BILL GREEN '47
• contact lenses DAN BROWER X '27
• surgical and diagnostic instruments
SAN FRANCISCO—STANFORD—SAN MATEO

AZEVEDO BROS.
Jewelers to Stanford Men & Women since 1936
DIAMONDS—WATCHES—SILVERWARE
Graduate Gemologist 1958
Stanford Charms & Crests
Suite 321, Shreve Bldg.
210 Post St. San Francisco 8
M. Arthur Azevedo, '34
Certified in Diamond Grading and Evaluation by the Gemological Institute of America

JOHN LEAHY ASSOCIATES
Consultants for Estate, Business and Employee Benefit Plans. Agents for Life and Disability Insurance and Annuities
1730 Kearney Street San Francisco 11
YUkon 2-0626

WALTER H. LEVISON, '24
GEM CONSULTANT & APPRAISER
Special Order Work
Estate Jewelry Bought, Sold, and Appraised
210 Post St. San Francisco 8 (DOuglas 2-4752)

RICHARD L. PARKER, '52
NATURAL GAS CONSULTANT
Vaughn Bldg. Amarillo, Texas

MARK TUBAN INC.
Authorized Ford Dealer
YOrkshire 7-6911
S. '55 111 El Camino Real, Mt. View

Stanford Review
This directory is for those requiring brief but recurrent mention (nine consecutive issues or more). It is maintained as a service for readers; the cost, $5.00 per column inch per issue, is less than half the regular display advertising rate.
Address inquiries to Advertising Dept., Bowman Alumni House, Stanford, Calif.

SCHOOL DIRECTORY

SCHOOLS FOR BOYS

MENLO School & College

TWO MILES NORTH OF STANFORD

WILLIAM E. KRATT, President — Member of California Association of Independent Schools

SCHOOL
College preparatory for grades 7 through 12. Day and boarding department for all boys.

COLLEGE DIVISION
Freshman and sophomore college years, in preparation for upper division college and university work.

SCHOOL OF BUSINESS ADMINISTRATION
Four year college, offering courses which lead to the degree of Bachelor of Science in Business Administration.

College Summer Session

FOR CATALOGUE AND FULL INFORMATION, WRITE OR PHONE:
Director of Admissions, Menlo School & College, Menlo Park, Calif.

The Robert Louis Stevenson School

"On the Seventeen Mile Drive"

PEBBLE BEACH, CALIFORNIA

College Preparatory

Grades 7–12

ROBERT U. RICKLEFS, '31, Headmaster

Box 110 — Pebble Beach, California

SCHOOLS FOR GIRLS

THE BISHOP'S SCHOOL

LA JOLLA, CALIFORNIA

An Episcopal school for girls. College preparatory. Grade 7, day only . . . grades 8 through 12, resident and day. Send for illustrated catalog.

CASTILLEJA SCHOOL

Founded by Mary Lockey, '02, in 1907
A Day and Resident School for Girls
GRADES 7–12
Accredited to Both Eastern & Western Universities
Member of California Association of Independent Secondary Schools
Margarita Espinosa, '27, Principal
PALO ALTO — CALIFORNIA

CRYSTAL SPRINGS SCHOOL

A Day School for Girls. Grades 7 through 12. College Preparatory courses only. Advanced Placement Programs for superior students. Junior Scholastic Aptitude Test required for Admission.
Adele Strogen, B.S. Boston University, M.A. Columbia University, Graduate Study Stanford University, Assistant Dean of Women Stanford (1947–57)
Headmistress
281 Sierra Drive — Phone DI 2-4175
HILLSBOROUGH, CALIFORNIA

SUMMER CAMP FOR BOYS

BOB MATHIAS SIERRA BOYS CAMP

★ The most modern camp in California
★ Special feature—sports and physical fitness
★ Exciting camping experiences for boys, 9 to 15 years of age
★ Horses, lake, out-camping and crafts

For free brochure write:
Bob Mathias, '53 — 5465 E. Grant
Fresno, Calif. — Phone: 255-5761

San Rafael MILITARY ACADEMY

Founded 1890

Thirty minutes from San Francisco in beautiful Marin County

College Preparatory — Church Affiliated
Fully Accredited

An Episcopal boarding and day school for boys of all faiths. Grades 7–12. Small classes. Exceptional science facilities. Olympic length, heated swimming pool. Individual and team sports. Ski trips.
Non-military summer sessions: Grades 5–12

For information write The Rev. Sumner Walters
B.A., M.A. (Stanford '49); Ph.D. (Oxon.)
or: Mr. A. C. Agnew, Jr. (Stanford '40)
Business Administrator

COEDUCATIONAL SCHOOLS

The Orme School

ON THE QUARTER CIRCLE V BAR RANCH
(Coeducational—Grades 7 through 12)

An accredited college preparatory school in a ranch setting. Accelerated and advanced placement programs. Graduates successful in leading colleges and universities. The school-ranch combination develops well balanced individuals with an appreciation of important basic values including the acceptance of and understanding of individual and community responsibility, the dignity of work, consideration for others, learning self-discipline and a consciousness of natural wonders and beauties. Outdoor program centers on interscholastic team sports competition and horsemanship.

SUMMER CAMP

Eight weeks featuring extensive horseback experience for each camper. Large swimming pool. Tennis. All crafts and sports. Camper Rodeo and Gymkhana. Motor Caravan through scenic southwest. Complete tutoring and academic program conducted by Orme School faculty.

MAYER, ARIZONA

MINNA VRANG ORME '16 — CHARLES H. ORME, '16
CHARLES H. ORME, JR. '41, *Headmaster* — ALLAN D. HILTON '54, *Admissions*

WILKINS PRIVATE HIGH SCHOOL

Accredited
Preparatory to California, Stanford, and all Colleges using the accredited system.
Preparation for college board exams, West Point, Annapolis—Coeducational Summer School Classes.
RUTH WILKINS RAYMOND, Principal
Fillmore 6-5906
3636 Washington Street — San Francisco

FAMILY FORUM: CONTINUED

faculty who told local newspapers that Steinbeck's work had value only for those of limited perspicacity. Could this man have been Assistant Professor H. B. Franklin, who was quoted in the *Stanford Daily* of Oct. 24 as saying that Steinbeck was not taught at Stanford on a regular basis because "it seems that he's not that good a writer"?

Quite aside from my feeling that Steinbeck is the one American author who is the peer of Dostoevski in his perception and painting of the more profound aspects of human experience, I believe that Professor Franklin can certainly place in jeopardy the respect he might command of his students with a remark like that.

A music professor at Yale once cautioned me not to use Haydn as a model because his (Haydn's) music "wasn't that good." And I remember thinking, "Buster, when you get to be as famous as Haydn, I'll buy your opinions." More and more I began to gravitate to other teachers for guidance.

ALEXANDER J. HORAK, '51
New York

Pre-primed to Ridicule?

IT IS UNDERSTANDABLE why the youth of our age is unbalanced and so easily led by the nose. It is a horse of another color why the *Review* should lower its standards . . . by printing the questionable fulminations of one Jerry E. Berg ["To Helsinki and Back," Sept.-Oct. issue.]

. . . His report was that of an individual and not that of a studious collective undertaking . . .

The writer would have done well not to have mentioned Hungary, Tibet, and Berlin . . . There was doubtless rebuttal . . . Cuba, Guatemala, and Iran! . . .

He gives no report on any of a hundred or more panel discussions and seminars . . . which discussed all the many problems besetting mankind . . . He went pre-primed to ridicule, denounce, and discredit — sans one constructive thought or suggestion!

JOHN C. TAYLOR, '04
Oakland

DESPERATELY NEEDED!

A Piano

To be used for accompanying modern dance classes. If you are moving to a smaller apartment or buying a new piano and don't know what to do with your well-cared-for old one, call Mrs. L. W. Guthrie, Women's Physical Education Dept., Stanford University — DA 1-2300, Ext. 2359.

A Summer of Fun You'll Remember

GOLDEN DAYS AT STANFORD SIERRA CAMP

at Fallen Leaf Lake in the Tahoe country

Our General Manager: BRUNO HUMASTI

GUESTS' REMINDER LIST: BRING

1. Sheets; pillow slips; blankets or sleeping bags (mattresses and pillows furnished, but not linen)
2. Towels, hand and bath; soap; toilet articles
3. Sport clothes or jeans; sweaters and wraps
4. Flashlights
5. Musical instrument, camera, costume and ideas for Fun Night

AND REMEMBER

1. No dogs, cats, or other pets*
2. Check-in time, 3 p.m.
3. First meal, dinner at six

* You can get to know the resident squirrels

--Organized but *optional* recreation program: you can loaf if you like, or let off steam
--Papoose Playground for small youngsters
--Supervised *separate* programs for older children
--Clean, rough-hewn cabins; more comfort each year
--Sunshine, sparkling lakes and streams, forests and peaks a dozen miles from the bright lights
--Hiking, swimming, boating, water skiing, tennis, riding, fishing in smogless mountain air
--Stimulating friends and wonderful food
--Ice skating at Squaw Valley

Make Your Reservations Now to Be Sure of Space

(Stanford Alumni Association members get first choice on reservations made by January 31, 1963) and mail it to Stanford Camp Association, Bowman Alumni House, Stanford, Calif. (Reservations must be for one or more full weeks.)

First and Last Name | Relation | Class (or age) | University (if not Stanford)

.....

.....

.....

.....

.....

.....

No. of weeks.....Number of persons.....*Starting date: 1st choice.....2nd choice.....

*Starting time 3:00 p.m. each Saturday; the week ends 10:00 a.m. following Saturday

I enclose $2.00 for my membership in the Stanford Camp Association for 1963, plus a deposit of $..... (minimum deposit $10.00 per person per week, excepting infants). Balance due three full weeks before effective date of reservation. Cancellation refunds can be made only on written notice received at least 15 days before starting date; in any event, once space is confirmed, the minimum deposit is non-refundable.

Signed:.....

Address.....Zone.....City.....State.....

Camp opens June 15, closes September 3

BARGAIN LABOR DAY WEEKEND

10 Days--Aug. 24--Sept. 3

Adults (11 and over)	$92.50
Children 5 to 10	64.00
Children under 5	42.50

3 Days--Aug. 31--Sept. 3

Adults (11 and over)	$27.50
Children 5 to 10	19.00
Children under 5	12.50

WEEKLY SUMMER CAMP RATES

Adults (11 and over)	$65.00*
Children 5 to 10	45.00*
Children under 5	30.00*
Infants (in arms)	10.00

Check if you wish:
☐ Bath
☐ Single beds for adults

Private bathrooms $20 extra per bathroom per week

* Includes meals; sales tax extra

Alumni Newsmakers

ALREADY LABELED the "boss" of the Pentagon and one of Secretary McNamara's "Whiz Kids," Alain C. Enthoven, '52, is quietly moving up the ladder. He recently was sworn in as deputy assistant secretary of defense and heads the new office of Weapon Systems Analysis. Formerly with the Rand Corp.'s "think factory," he was brought to the Department of Defense when Secretary McNamara made economic analysis and the use of computers and other business machines a decisive factor in his military decisions. The former Rhodes Scholar received his PhD from MIT.

"CITIZEN OF THE YEAR" honors for Aubrey E. Austin Jr., '40, president and chairman of the board of Santa Monica Bank. He was honored by the Santa Monica Bay District Board of Realtors. A former president of the local Chamber of Commerce, he is a member of the Metropolitan Water District Board and chairman of the Small Craft Harbor Advisory Committee, County of Los Angeles. Professionally he has been elected to a second term as president of the Independent Bankers Association of Southern California. He was named board chairman of Santa Monica Bank in November while continuing as president and chief executive officer.

A FORMER PRESIDENT of the Alumni Association, Milton M. Teague, '25, has assumed the top position in the California State Chamber of Commerce. He was elected to the post in November after having served as third vice-president and chairman of the agriculture committee. Professionally he is vice-president of Sunkist Growers, Inc. He is a Santa Paula resident.

Shortly after assuming office, Teague announced as the group's goal for 1963 "to make California not only the largest state in population, but also the greatest of the 50."

NEW PRESIDENT of Shell Development Co., research division of Shell Oil Co., is Dr. Cecil W. Humphreys, Engr. '28, PhD '31. With Shell since 1931, he had most recently been vice-president of Shell Chemical Co. Starting with the firm in Pittsburg, he had served in Martinez and Dominguez before being named manager of the Houston plant. In 1946 he was named manager of operations of the manufacturing department and in 1953 a vice-president of Shell Chemical Co. He is active in a number of professional groups.

RECIPIENT OF the Ernest E. Howard award of the American Society of Civil Engineers for 1962 is John A. Blume, '33, Engr. '35. The award was presented in recognition of his research in the earthquake resistance of structures and in structural dynamics.

Blume, who maintains his consulting engineering firm in San Francisco, has been associated with a number of projects, including the San Francisco–Oakland Bay Bridge. He is working on the Stanford Linear Accelerator Center.

PROFESSIONAL HONORS, also, for Herbert R. Straight, '97. The former chairman of the board and president of Cities Service Oil Co., Cities Service Pipe Line Co., and Cities Service Gas Co., has been chosen 1962 recipient of the Oklahoma Petroleum Council's Outstanding Oklahoma Oil Man Award. Called the "Dean of Mid-Continent Petroleocrats," he was selected for his contributions to the development of the petroleum industry of Oklahoma as well as to his community, state, and nation.

Active in Oklahoma from 1911 until his retirement in 1947, he has continued to serve as a director of Cities Service Petroleum Co. He has many professional "firsts" to his credit.

NEW DEAN of the Women's College at Duke University is Dr. M. Margaret Ball, '31, AM '31, PhD '35. Most recently Ralph Emerson Professor of Political Science at Wellesley College, she also had been a specialist on international affairs for the U.S. State Department. She will hold the academic rank of professor of political science at Duke. Dr. Ball has served her country in a number of capacities, in addition to her work with the State Department. She has written several books, including *NATO and the European Union Movement*, published in 1959.

A FORMER EDITOR of the *Stanford Daily*, Ronald J. Rapoport, '62, is studying at the Columbia University Graduate School of Journalism under a Grantland Rice Fellowship. He hopes to follow the career of the man for whom the fellowship is named—sportswriting. He wrote in this field for the *Daily* and as campus correspondent for Associated Press.

PATRICIA BURWELL CAVIN, '47, has been appointed manager of public affairs for the Radio Corporation of America in Washington, D.C. A former newspaper feature editor and radio commentator, she is also serving as president of the Women's National Press Club. In her new position she will be responsible for news, information, and public affairs activities of RCA in Washington.

A former Fashion and Beauty Editor of the *Washington Times-Herald*, she most recently had been with the National Broadcasting Co.'s station WRC in Washington. She served as commentator and as producer and broadcaster for the Patty Cavin Program "Capital By-Lines."

A FORMER Sierra County Superior Court Judge, Winslow Christian, '47, LLB '49, has been selected the new administrator of the California Health and Welfare Agency by Governor Brown. Named a judge in 1958, he earlier had served as District Attorney of Sierra County. He also had been a Deputy Attorney General and for two years was chairman of the Governor's Study Commission.

THE GAVEL belonging to the president of Calso Water Co. has been handed from one Stanford alumnus to another. John H. Gertridge, '44, has succeeded Gordon Knapp, '43, as head of the Menlo Park firm. Knapp will continue with the company as chairman of the board. Both have been active in class affairs.

ALAN G. GREY, '41, has been appointed manager of the International Division of Kaiser Steel Corp. The division was recently created to give purpose and direction to the company's investments in foreign countries and recognition to the growing importance of the need for international trade and investment. Grey joined Kaiser in 1949 as a project engineer and most recently had been assistant general sales manager–administration.

WHILE STANFORD picked a California alumnus as football coach, the University of California quietly reached for a Stanford graduate to serve as treasurer of the Board of Regents. Owsley B. Hammond, MBA '36, assumed this post in January after serving as vice-president and treasurer of Theo. H. Davies and Co., Honolulu. As treasurer, he will be responsible for managing the investment portfolio, real estate, and banking transactions of the University. His headquarters will be in Berkeley.

NAMED executive vice-president of Society Brand Clothes, Inc., Chicago, is Hugh H. Gallarneau, '41. He had been assistant to the president of Hart Schaffner & Marx, the parent firm, for the past 18 months. Co-captain of the 1940 Stanford football team, Gallarneau began his career in the clothing industry while playing professional ball with the Chicago Bears.

A CONTRACT direct from the White House is the latest coup accomplished by noted San Francisco architect John Carl Warnecke, '41. His plans for Lafayette Square, the little park across Pennsylvania Ave. from the White House, drew praise of both President and Mrs. John F. Kennedy.

A decision had been made to put a big building on one side of the square to house the growing Presidential staff and a courthouse on the other side. But, there were many historic buildings which it was hoped could be retained. They were through the use of Warnecke's solution—to place the two big buildings back from the square, behind the rows of old houses. The historic buildings will be used for such small government bodies as a commission on war memorials. The entrance to the courthouse from Lafayette Square replaces a building not worth saving. It will have the same roof line as the houses next to it.

Warnecke noted that preserving the character of an area while adding modern architecture is very much along his line—citing the Stanford Bookstore and post office as examples.

ROBERT C. FROJEN, '52, has been elected to the board of directors of the Western States Advertising Agencies Association in Los Angeles and will serve as director of the group's annual conference in Palm Springs. Head of his own company in Los Angeles, he is a past president and current director of the Los Angeles Opera Co.; a member of the Los Angeles Chamber of Commerce, University Club, and a number of civic and fraternal groups. As an undergraduate he was a member of the swim and water polo teams.

REP. EDITH STARRETT Green, Gr., '44, chairman of the House Special Subcommittee on Education, delivered the annual Burton Lecture at Harvard in January. Her topic was "The Federal Role in Education Today." A Congresswoman from Oregon since 1954, she is a member of the House Committee on Education and Labor and the House Committee on Administration. Her subcommittee has been conducting a study of Federal programs in education.

AEROJET

Azusa, California
(25 miles east of Los Angeles)

Now offers a Senior Position on the

Engineering Staff

of our

SPACE PROPULSION DIVISION

for a

GAS DYNAMICIST

Will serve as a Technical Specialist and be responsible for the technical direction of all Gas Dynamic programs in the division.

This position will involve special analytical and experimental studies in the following areas:

- *Optimum performance on rocket nozzle contours.*
- *Analysis of fluid dynamic losses in large area ratio nozzles.*
- *Chemical non-equilibrium effects on gas dynamic analysis.*
- *Analysis of rocket exhaust plume characteristics for vacuum conditions.*

MUST BE U.S. CITIZEN

For information write today to:

MR. R. S. LAWRENCE
6352 Irwindale Ave.
Azusa, California

AEROJET GENERAL TIRE GENERAL

A subsidiary of the General Tire & Rubber Co.
AN EQUAL OPPORTUNITY EMPLOYER

Faculty and Staff

Utilizing Water Resources

THE USE of a "watershed model" developed by Stanford civil engineers may soon show water experts how they can best control and use the rain that falls in a given region. Working under a National Science Foundation grant, Professors Norman H. Crawford and Ray K. Linsley of the Civil Engineering Department have developed a computer program. It absorbs information about an area's rainfall, soil, vegetation, and other features—and within 10 minutes provides figures giving a year's streamflow.

The scientists hope the watershed model will greatly speed up and simplify techniques used by engineers to determine how big a dam will be needed to control flood waters, how to lay out an efficient irrigation system, and how best to conserve the area's available water.

Professors Linsley and Crawford say the model may help answer the age-old question of the effect of forests on water conservation—do trees consume more water than they conserve?

The investigators expect the program to be particularly useful in watersheds where streamflow records have not been kept very long. Given a few years of a watershed's streamflow records and 50 years of rainfall records, the machine can provide synthetic streamflow figures for the missing years. Results to date have shown remarkable accuracy in tests made in watersheds in California, Washington, Texas, and North Carolina.

Citations and Awards

GEORGE POLYA, professor of mathematics, emeritus, has received the Award for Distinguished Service to Mathematics of the Mathematical Association of America. He was cited for wide research as well as constructive influence on mathematical education. Dr. Polya came to Stanford in 1942 after teaching for 26 years at the Swiss Federal Institute of Technology. He retired in 1953, but has continued to write and lecture widely. He is a native of Hungary.

The Distinguished Scientific Contribution Award of the American Psychological Association has been received by Prof. William K. Estes. He was cited "for his careful theoretical and experimental work that has done so much to make the statistical approach to learning theory an important forefront in contemporary psychology." Professor Estes is a former member of the National Research Council and former president of the APA's division of experimental psychology and the Midwestern Psychological Association. Dr. Leon Festinger, also of the Psychology Department, received the award in 1959.

Still another honor has been bestowed upon Prof. William M. Fairbank—the 1963 Oliver E. Buckley Solid-State Physics Prize of the American Physical Society. He was cited "for his work on the properties of helium 3, and especially for his part in the experimental discovery of flux quantization in super-conductors." Presentation was made in New York in January.

FAIRBANK

Education in Japan

THE JAPANESE educational system is at a crossroads, and the course of the next few years may determine Nippon's goals and the long-term future of the country.

These are the conclusions resulting from a five-year study conducted by the Stanford-Tokyo Research Project directed by Prof. Arthur Coladarci.

During the occupation many reforms were instituted. Some have remained, but others are no longer in effect and have been replaced by pre-war methods. There is considerable dispute between the Ministry of Education and the leftist-directed Japanese Teachers Union over centralized versus local control.

Additional areas of concern to the researchers:

Local election of school board members has been given up and members are now appointed by local civil authorities.

The traditional "moral education" period, outlawed by the occupation, has been reinstituted.

The schools are overcrowded, with as many as 72 students per teacher. And the concept of equal educational opportunity from an equalized tax basis hasn't been achieved. There is a shortage of teaching materials and instructional aids.

Professor Coladarci and his colleagues did find a bright spot—Japanese parents took to the Parent-Teacher Association as if it were a new staple in their diet.

The project was directed by a University of Tokyo faculty group. They were assisted by a five-man liaison committee of Stanford faculty members. Besides Professor

(*continued on page 16*)

The best brains in town are working free tonight

In cities and towns all over America you'll find men like these — men who are willing to put aside the evening paper, cast a backward glance at their favorite armchair, and go off to help solve a community problem.

They're merchants, lawyers, businessmen. Together, they can do almost anything — except say "No" when the town asks for their help. They're the men you can really count on when you need a new hospital. A new school. A new church. All too often the efforts of these unselfish, public-spirited Americans are taken for granted — when the truth of the matter is the community simply couldn't do without them.

When community leaders ask that all-important question "Who can we get to help with . . . ?", a Massachusetts Mutual man often comes to mind. For the Massachusetts Mutual man knows his neighbors, and they know him. They trust him, and trust his judgment.

MASSACHUSETTS MUTUAL *Life Insurance Company*

SPRINGFIELD, MASSACHUSETTS · ORGANIZED 1851

Some of the West Coast Group alumni in Massachusetts Mutual service:

U. OF CAL.

John F. Curtis, C.L.U., '28, Los Angeles
Earl V. Livingston, Jr., '47, Oakland
Arthur C. Yearin, Jr., '48, Fresno
Clayton D. Calender, '48, Belvedere
Harry E. Schultze, '49, San Francisco
James W. Tourtellotte, '49, Lafayette
George F. Hartman, Jr., '50, San Francisco
David E. Smith, '56, Los Angeles
Julius S. Hauso, San Francisco
James R. Gibson, Chicago

STANFORD

Edward Neisser, '26, Los Angeles
Lucia C. Mitchell, '28, Syracuse
Thomas W. Cordry, Jr., '33, San Francisco
Fred R. Miner, '40, Stockton
Jacob E. Way, Jr., '44, Waukegan
William W. Davies, C.L.U., '48, Los Angeles
Joseph F. Monasta, C.L.U., '48, San Jose
Robert H. Woodward, Jr., '49, Palo Alto
David C. Englehart, '53, Portland, Ore.
Ronald P. Tomsic, '55, Oakland

U. OF OREGON

Carlo A. Apa, '42, Portland
D. Neil Rose, '55, Portland

OREGON STATE

Edwin L. Iverson, '39, San Francisco
James W. Dunn, '51, Beaverton
Clarke W. Cubbage, '57, Eugene

(*continued from page 14*) Coladarci, the group included Dean I. James Quillen, Prof. John Goheen of the Philosophy Department, and Profs. Paul R. Hanna and Lawrence G. Thomas of the School of Education.

Joining the Movement

Too often in education "current fads" become so important that the teacher runs from one to another—and has to ask, after this, what?

Dr. Dwight W. Allen, assistant professor of education and co-director of Stanford's special high school teacher training project, recently took intellectual aim at such fashionable clichés as team teaching, teaching machines, class groupings, group dynamics, and flexible scheduling.

Of teaching machines he said: "Don't be afraid to use them. Any teacher who can be replaced by a machine should have been replaced a long time ago."

And, of class groupings: "Sometimes we work hard and fight the scheduling to get that little dream class of 10 or 12 students. Then we stand and yak at them all period long. We might as well have a class of 200."

Speaking on team teaching: "Don't do it if you can't do it well; one of the major problems is to select teams with compatible personalities."

A final shot was aimed at current admission policy: "Schools in Rhodesia say a child can enter school if he can touch the lobe of his left ear with his right hand. That makes as much sense as saying he can enter because he was six years old on Dec. 20 or some such date."

Savings and Loan Groups

California should charter practically no new savings and loan associations for several years and should approve only "selective mergers" of existing firms.

This was the conclusion reached by Prof. Edward S. Shaw of the Department of Economics in a report to the Savings and Loan Commissioner.

The savings and loan industry "has been a successful venture in regulated enterprise," Dr. Shaw reported. But rapid growth has resulted in several serious structural flaws:

Shaw

1. Operating expenses . . . are higher in California than any other state (as a percent of savings capital).

2. Restraint of competition . . . detaches the industry from rational capital markets."

3. There is concentration of control in the industry that is both antithetical to the goals of free competitive enterprise and conducive to linkage of risks that could generalize financial disorder.

Professor Shaw emphasized that the industry is not solely responsible for its faults, and operates "in an outmoded context of regulation."

The Future of the Alliance

The Alliance for Progress is so diversified in its aims, nebulous in its structure, and bureaucratic in its organization that it is practically unworkable. So states William J. Kemnitzer, lecturer at Stanford's Institute of Hispanic American and Luso-Brazilian Studies, in a recent public affairs report.

He added that if the Alliance is to be a success in Latin America we must now and without delay get direct to the people.

Kemnitzer noted that the major part of the agitation against the United States in Latin America comes "from the student, labor, and peasant leaders who represent the great masses of the underprivileged. The record is clear that what we desire from the masses has not been obtained over the past 16 years either with money, threats, or force . . ."

During the first year's operation of the AFP, Kemnitzer's report shows, nearly 60 percent of the funds went for such items as refinancing of purchases, balancing of payments, budget support, reconstruction and relief, industrial credit, and capital goods financing. Between 80 and 85 percent of the funds never leave this country but are spent here for machinery, equipment, supplies, and services.

Kemnitzer said that the U.S. should "encourage and assist free enterprise in establishing privately owned and operated agricultural processing, manufacturing, or distributing activities in which the people can function as both producers and consumers to create and sustain a viable domestic economy."

The bulk of our assistance funds, he believes, should be diverted into educational, health and sanitation facilities; housing and public welfare activities.

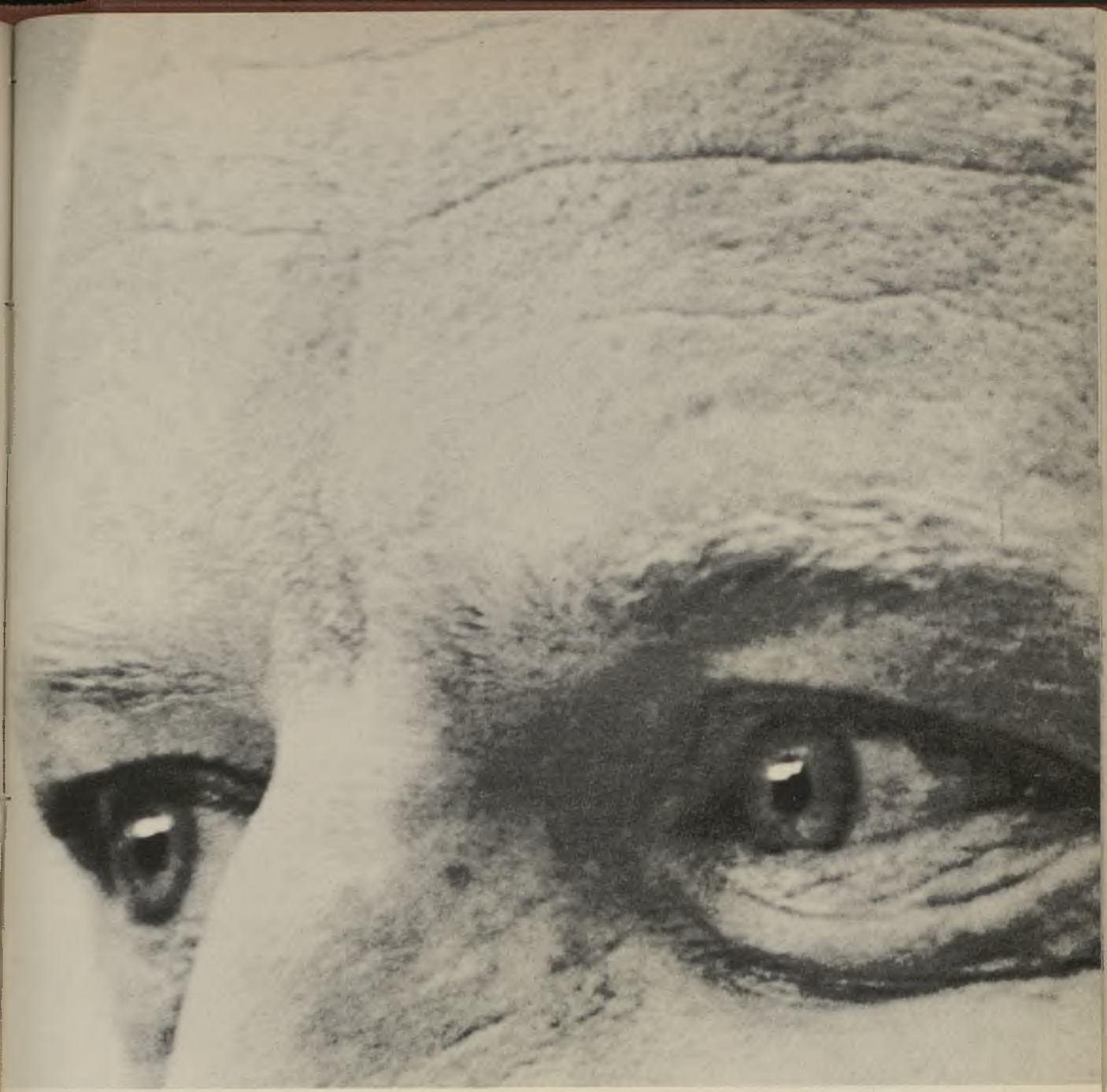
An out-of-date Will may be as bad as none at all!

When you revise yours, ask your lawyer the advantages of naming this bank as executor.

THE BANK OF CALIFORNIA
NATIONAL ASSOCIATION
OFFICES IN CALIFORNIA, OREGON AND WASHINGTON

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

☆ Stanford's Favorite Since 1932! ☆
Refreshments ☆ Dinners ☆ Banquets
André's L'OMELETTE the FRENCH RESTAURANT & BISTRO
2 Miles South of Stanford on Old El Camino Real
☆ Closed Mondays and Tuesdays ☆



The moment of insight is a private thing.

It can happen anytime, anywhere. Somewhere in the mind the barrier to a solution crumbles. Everything suddenly slips into place. It can't be forced or commanded. But it comes about most often in a climate of mutual respect and recognition. This is the kind of climate you'll find at Northrop.

You'll also work in a climate of constant professional challenge at Northrop. We have more than 70 active projects in work, and we're always evaluating new lines of inquiry. Present programs cover such fields as interplanetary navigation and astro-inertial guidance, aerospace deceleration and landing, man-machine and life support systems for space, automatic checkout and failure prediction systems, laminar flow control techniques and world-wide communications.

For more specific information, see your placement counselor. Or write to Dr. Alexander Weir, Northrop Corporation, Beverly Hills, Calif., and mention your area of special interest.

NORTHROP
AN EQUAL OPPORTUNITY EMPLOYER

STANFORD REVIEW

Is STANFORD's new 150-foot steerable paraboloid—largest in the United States and third largest in the world—the last of the "giant dish" radio telescopes? Possibly; after spending millions on the project, the Navy has dropped plans for a dish four times the size of Stanford's. Reason: it proved too costly. Now Prof. Ronald Bracewell wants to build an instrument with an aperture four times larger than that of the scope the Navy decided was too expensive. It would cost billions—if Bracewell were talking about another Gargantuan dish. But he prefers a multi-element design (see cover photo) which promises to yield the necessary range and precision at only a fraction of the cost. Some of his ideas are described in this article by Tim Welch, holder of two Stanford degrees, who is back on campus studying for his doctorate in communications. The photos on this page are of the Stanford dish: above, under construction; left, with the dish in place (note how it dwarfs the automobiles parked under the tower).

Time to Scrub the Dishes?

By Timothy Welch

What do huge radio telescope "dishes" have in common with the dinosaurs? The answer, according to Stanford University radio astronomers, is that both have become too heavy to survive competitively. These dish telescopes, which listen to radio emissions from the stars and other planets, have grown steadily in size—until last year.

Then came Navy cancellation of its proposed 600-foot dish at Sugar Grove, West Virginia. This behemoth, which was to have been the largest movable paraboloid "ear" in the world, was "scrubbed" (Navy jargon for "terminated") after almost $42 million had been invested in its mounting facilities alone. It was abandoned because the cost for the necessary precision was prohibitive—leaving Stanford's new 150-footer (cost: only $350,000) as the largest fully steerable dish in the United States and the third largest in the world.

The dish itself, which would have weighed some 32,000 tons—as much as five Polaris submarines put together—never got into place at all. Cost of the total Sugar Grove project had been originally estimated at $79 million, but had skyrocketed to a completion figure of nearly $220 million.

And yet larger radio and radar telescopes are needed to probe deeper and deeper into the sky to answer cosmological questions, not the least of which is the origin of the earth itself.

Signals are bounced off planets and other celestial bodies in radar astronomy, an offshoot of radio astronomy. Radar astronomy differs in that the scope fires out its own signal and then listens to the echo, while radio scopes merely gather signals originating in space. (In practice, radar and radio probes usually come from a single telescope equipped electronically to make either type of observation.)

Radar's weakness lies in the amount of power required to generate deep space probes. The strength of the radar echo decreases with the fourth power of the distance rather than the square, as does light picked up by optical telescopes.

Stanford, with addition of the 150-foot dish, has the largest radioscience laboratory of America's universities, and one of the most diversified in the world. Stanford antennae were the first to bounce signals off the sun's corona (April, 1959); first to detect the presence of Sputnik I (October, 1957); and first to make systematic study of the strong "antipodal signals" received from artificial satellites on the opposite side of the globe.

Dr. Ronald Bracewell is the Stanford radioscientist in charge of a National Science Foundation study project aimed at solving the radio astronomers' largest problem: getting a big enough telescope at a small enough cost.

The Stanford Cross radio telescope [see cover photos], designed and built by Bracewell under an Air Force grant, shares with a similar Australian instrument the honor of being the world's sharpest radio scope. This 32-dish "spectroheliograph," which studies the sun's surface with a beam only one-twentieth of a degree wide, has the highest resolution in the world—more than twice the resolving power of Russia s most precise radio telescope. This is the same instrument with which Dr. David Cudaback established that the moon's surface is 80 percent porous [November-December *Review*].

Resolution, or the ability of radio telescopes to focus the listening beam, is the stickler. Although these scopes can "hear" some 10 times farther out into space—some 25 *billion* light years—than optical scopes can "see," the radio devices cannot distinguish between radio sources as well as lens tele-

scopes can differentiate light sources. For example, visible light waves measure one fifty-thousandth of an inch, and a simple 10-inch optical telescope can encompass 500,000 of these waves. But to get a comparable sharpness from the 40-*foot* radio waves which emanate from the planet Jupiter, the radio telescope would have to be 3,800 miles in diameter!

Radio astronomy has already yielded a wealth of information about the cosmos, but better instruments capable of sharper refinement are necessary if this brisk pace is to continue. Bracewell and his colleagues (Govinda Swarup and Charles Seeger) believe the answer to this resolution problem is in multi-element telescopes similar to the 32-dish array—only far bigger. Says Bracewell:

"Our goal is an aperture of about 2,400 feet at a wave length of 21 centimeters. In the past, the cost has mounted roughly as the cube of the diameter and, comparing such a telescope with the Sugar Grove experience, it's safe to say that a 2,400-foot steerable paraboloid would cost billions."

WHY BIGGER telescopes to bounce better echoes off various interplanetary bodies? Better information, says Dr. Bracewell. "The mere detection of an echo gives no information," said the Australian-born professor. "The quality of the echo gives the valuable information—temperature, chemical composition, and so forth."

"Finding funds for a large telescope is definitely the designer's problem—or one of them. A design that is unacceptable to the financing agency because of cost is just a failure. Since we've already reached costs with telescopes which amount to significant fractions of the national budgets of some countries," Bracewell says, "it's imperative for designers in the plus-1,000-foot ballpark to abandon the steerable paraboloid as a design—and switch to a type where we can more nearly have the cost proportional to area."

Some astronomers have tried to whip the problem of size and resolution by building giant bowls in the earth which do not move, such as the 1,000-foot bowl at Arecibo, Puerto Rico, and the 600- by 400-foot "stadium" reflector at the University of Illinois. Such fixed reflectors focus by means of a device suspended over the middle from cables stretched rim to rim across the chasm.

But the sizes and tolerances required are punishing. To achieve Bracewell's goal of a 2,400-foot reflector, such a "hole-in-the-ground" dish would have to be one thousand feet *deep*, with a mast the size of the Eiffel Tower to hold the focusing apparatus within a tolerance of *one inch* despite wind and temperature attack.

THE STANFORD concept is to construct a series of cylindrical reflectors, synchronized mechanically and electronically. These reflectors, in addition to their enormous size—the one under consideration would have a beginning signal-catching area of *90 acres*—can be added to indefinitely, and used while new sections are being built. This, says Bracewell, in addition to saving whopping sums of money, shortens the "lead time" between design and use. The Sugar Grove 600-footer, for instance, would have been completed a long six years after its design began.

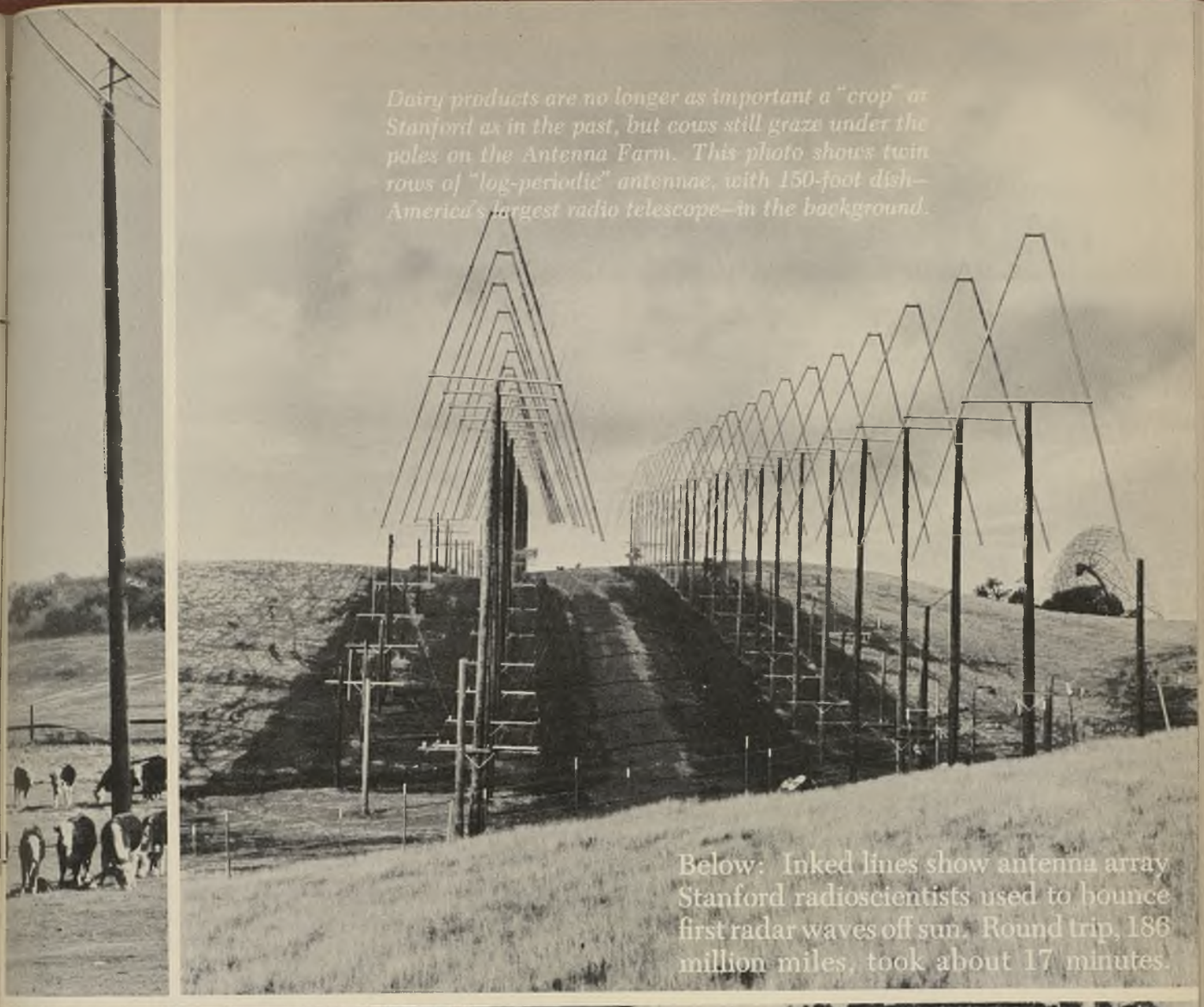
"The instrument contemplated has such high resolution that many years would be required to survey the whole sky," the Stanford astronomer predicts. That is, the beam is so narrow and sharp that it covers less of the sky at one time. However, "multi-beaming," or observing in many directions at once, will save time.

The "radio sky," as it is called by these twentieth century astronomers, would be unrecognizable to the layman. The strongest radio signals sometimes come from the faintest visible stars. When Jupiter emits its radio pulses, it is the brightest radio star in the sky.

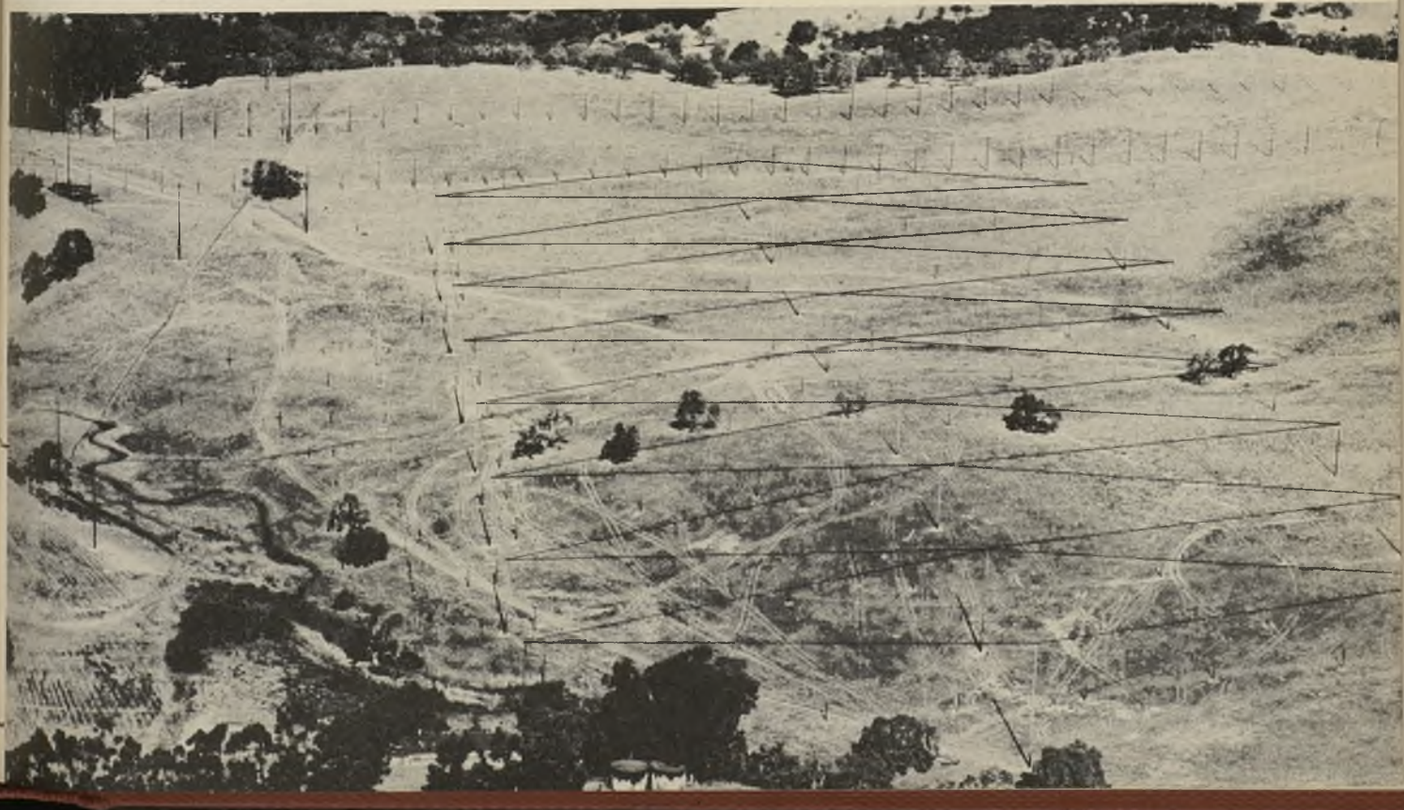
The amounts of radio energy coming from these sources numb the imagination. If all the radio energy given forth in a single second from one nebula, Cygnus A, could be transformed into heat, this energy would supply the earth's requirements for heat and power for the next trillion years!

A REVOLUTION in radio astronomy could very easily begin on the "antenna farm" in Stanford's rolling, oak-studded foothills. The two thousand acres devoted to radioscience research provide an enticing site for one of the giant multi-element telescopes envisioned by Bracewell—a telescope whose exquisite ears can reach billions of light-years into the universe to find an origin, and perhaps a meaning, to that universe.

Dairy products are no longer as important a "crop" at Stanford as in the past, but cows still graze under the poles on the Antenna Farm. This photo shows twin rows of "log-periodic" antennae, with 150-foot dish—America's largest radio telescope—in the background.



Below: Inked lines show antenna array Stanford radioscientists used to bounce first radar waves off sun. Round trip, 186 million miles, took about 17 minutes.



ALEMBIC IN LIMBO

A College Dialogue by David McCord

Harvard's David McCord—poet, essayist, painter, wit, transplanted Westerner (out of Lincoln High, Portland)—is living proof that literacy isn't necessarily a handicap for either an alumni editor or a college fund raiser. He has been both during the 45 years, boy and man, that he has been associated with Harvard—he headed the alumni fund from its founding in 1925 until his recent retirement and also found time to edit the Harvard Alumni Bulletin *from 1940 to 1946—but is best known for such inspired bits of doggerel as "Shake and shake the catsup bottle—/ None will come, and then a lot'll," and for his terse epitaph to a waiter: "By and by God caught his eye." But he has also been Phi Beta Kappa poet at three institutions, Fellow of the American Academy of Arts and Sciences, and recipient (in 1956) of the first honorary Doctorate of Humane Letters ever conferred by Harvard. This article is a distillation of his beliefs about a college and the relationship of its graduates to it.*

Quo Animo ("By what mind, with what intent"—hereafter Q.): Driving a car or shaving or falling asleep, haven't I heard you somewhere before?

Alter Idem ("Second self"—hereafter A.): I have many disguises: conscience, inspiration, *élan vital*, the inner check, Monday morning quarterback, the brass-tack salesman, echo, the private I. You are asking my help?

Q. What can you tell me about the *general* use of *higher* education? Please observe that I emphasize the adjectives.

A. Something — just possibly. I have lived in three different college towns.

Q. A man might live in Camembert, and not know how to make cheese.

A. I spent four years *in* a college.

Q. And then?

A. I hung round for another forty just to see what I had got out of—pardon me—derived from it.

Q. You have steeped yourself in Alma Mater? You must reek of the place!

A. I am unaware of that. Apart from accurate estimates of my true vocation, I have been taken for a chess player, an orchardist, a reporter at large, a patent lawyer, print collector, past president of a narrow-gauge railroad, editor of a defunct quarterly, and a dealer in movable type. It is only in Greek and German restaurants that I am sometimes called professor.

Q. You know you are not a professor.

A. In extended argument, some of my friends will say that I missed my calling, though not by much. No: I am a lifelong student. Do you remember what James Bryant Conant said in 1936, at the time of the Harvard Tercentenary? "He who enters a university walks on hallowed ground."

Q. But a college or university surely is not life.

A. Perhaps. But at least it is a stage; and on the stage, says Thornton Wilder, "it is always *now*." The only difference is that on Broadway or in London you have the same actors in different dramas; in college you have successive actors in the same dramas. Take your choice.

Q. All right; you have taken yours. Am I correct in suspecting that you are puzzled by the current popular image of the college? We all know what that is: the passport to a better job—where "better" is an unrequited comparative; a package deal of contacts-that-will-help-me-in-later-life, organized or spectator sports, bull sessions, desultory reading, dates unlimited, freedom of supervision, and the technical mastery of an early warning system against the examiners' attack. College is also a place to go back to, a football team, a target for stray criticism, a box of dreams in camphor, an experiment in architecture, a prestige name to boast of, an annual-giving Fund.

A. This isn't everyman's indictment, even among the young.

Q. I called it the popular image: largely in the minds of the unacquainted.

A. "All music [I am quoting Whitman] is what awakes in you when you are reminded by the instruments." When the mind awakes, the student—and then only—has a right to be so-called. He has found himself.

Q. Has it ever crossed your mind that a Maine guide's license—not to be come by lightly—is in one

Copyright 1963 by Editorial Projects for Education. All rights reserved.

respect worth more than the A.B. degree? It is, in fair part, a guarantee against getting lost. The A.B. guarantees nothing. . . .

A. Think that through. Anyone who does not commit himself to being lost in college will never know what he's really there for. And what is he, may I ask you, if not for the joy of discovery?

> I take the red lance of the westering sun
> And break my shield upon it; who shall say
> I am not victor? only that the wound
> Heals not, and that I fall again.

Something to tilt against: something to win from or win in, and lose to and win from or in again. It matters not whether the light breaks through in poetry, linguistics, acoustical theory, choral composition, Sanscrit, engineering, steroids, heavy water, or mycology. Call it revelation, if you like. It may tremble in the turn of phrase on a teacher's tongue; it may lie hidden in an oil or water color hanging in the college museum; it may settle as yellow substance at the bottom of a test tube, or break forth in a single chord of Palestrina. G. M. Trevelyan has spoken of "the *poetry* of handling old Mss. which every researcher feels." Harlow Shapley, the astronomer, has said that on opening a book on mathematics he was sometimes moved by the same emotions he had when he entered a great cathedral. Some day (and I regret to predict it) there will be a monitor station, with a dean in charge, in every college in the land: a light will flash, and Freshman X will be credited with his awakening. "Three years, Mr. Y, and I must inform you that as yet your light has not come on." But enough of that! To be young and in college, if only the young and in college knew it, is looking up at the night sky, mobile under scattered clouds, when no two stars are of one constellation. Now and then the heavens will open wide; but oftener not. Consider Mr. Frost's poem, "Lost in Heaven," source of my star-talk:

Let's let my heavenly lostness overwhelm me.

Q. That seems an elaborate metaphor for one who frequently quotes Ellis, what? "Be clear, be clear, be not too clear." In the popular image, of course, there is no room for footnotes like the one that Christopher Morley's father, Professor of Mathematics at the Hopkins, appended to a tough examination paper he had set. "If an exact answer does not suggest itself, an inspired guess will not be without value." To the image makers, college is . . .

A. Colleges, if we adhere to the prefab image of so many young matriculants, would feed the dream direct to the computers. But this will never be, make no mistake; for somewhere on some campus there is always coming up an Emerson, Webster, Brandeis, Millikan, Jane Addams, Thurber, Cather, Cushing, Carson, Salk, De Voto, or Marquand who find exactly what they need, flourish often in creative loneliness or at variance with tradition. In the renewal of achievement, they will mend the leaks in the true legend of what a college is. And please to note here that the legend is always better than the popular image, just as in poetry the metaphor is stronger than the simile. Observe with pleasure that the legend is always *of the college.* Longfellow of Bowdoin, for example.

Q. We are not forgetting (a) that the awakening process frequently occurs at the grade-school level; (b) that for many remarkable individuals college was and remains outside their ken: witness Franklin, Whitman, Mark Twain, Winslow Homer, Edison, Burbank, Hemingway.

A. We are not forgetting that to the early-awakened the college is a paradise. For the writer and the artist it helps provide an intelligent, widening audience. As to inventors: it is unlikely in the future that the great ones will not be trained in universities or technical institutes. It is quite a day's journey to the frontier of science.

Q. You will grant that in spite of inflation, internecine war over who gets whom among the teaching giants, and the magnified problem of balance between the humanities and the sciences—our colleges survive as islands of light across the nation. The young ones struggle toward accreditation; the old ones to keep their place, or better the peck order in achievement and endowment. At the same time they are beginning to function as the cultural centers of their communities and sometimes (as in particular with certain state universities) of their states. They are the new patrons of the arts—and of the sciences, too; on the air and on the screen and on the public platform. Faculty, students, facilities—all are variously involved.

A. But still the tragic failure of our colleges involves the average alumnus—and I am using the masculine by grammatical convention. He is like a three-stage rocket: the first takes him up through the twelve grades into college, the second takes him through (*Continued on page 46*)

The sin of pride in the Pardoner's Tale

by Betty Kantor

THE PARDONER of the *Canterbury Tales* remains perhaps the most enigmatic of Chaucer's pilgrims, despite the numerous published explications of his prologue, his tale, and his character. Most critics agree that the tale itself, the story of three rioters seeking Death, is the *exemplum* of a sermon on the sin of avarice. Those who concern themselves with the Pardoner's character ask very specific questions: What motivates the Pardoner's startling self-revelation or confession in the prologue? How sincere is this confession? Why, after exposing his relics as false, does he attempt to use them in soliciting offerings from the pilgrims?

Whether writing about the Pardoner's character or his tale, scholars have sensed the irony in his performance. Yet few have observed how extensively Chaucer used this technique. To be sure, R. K. Root and others have pointed out a central ironic message in the narrative—that death comes swiftly to those who seek it. By relating the tale to its teller, Frederick Tupper noticed a deeper level of irony—namely, that the man who inveighs so eloquently against avarice practices the very sin he deplores. But no one, it would seem, has commented on still another dimension of Chaucer's irony. That is, sufficient attention has yet to be given the fact that the Pardoner, although announcing that he will talk about avarice, is really preaching a sermon against the more fundamental sin of pride; despite his confession of greed, his essential sin is this much more serious one.

In presenting the Pardoner in the *General Prologue*—

> With hym ther rood a gentil PARDONER
> Of Rouncivale, his freend and his compeer,
> That streight was comen fro the court of Rome

—Chaucer of course assumed full acquaintance on the part of his audience with the office and duties of a pardoner. Even though many treatments of this subject are available, a brief summary is helpful here as an introduction to the analysis of the performance and character of Chaucer's Pardoner of Rouncivale.

According to canon law, a pardoner or *quaestor* of alms did not have the right either to forgive sin or to sell indulgences to any purchaser. Indulgences remitting punishment for sin could be legitimately granted only to the contrite persons who confessed their sins to their own parish priests. If this condition was met, the purchasers of indulgences could draw on the treasury of grace and thus be relieved of a stated period of purgatorial punishment. Many pardoners were commissioned directly from Rome, and offered indulgences to all those subjects who contributed to the support of Christendom. Some pardoners were sent from the Church-supported hospitals that existed all over the continent. Such hospitals, often the repositories of relics efficacious in curing the sick, com-

This essay, a Senior Thesis chosen as one of the 1962 Honors Essays in Humanities, was condensed to its present form at the request of the Reading Committee, which deemed Miss Kantor's interpretation of "The Pardoner's Tale" important enough for her to cast it into a style suitable for reference by scholars. It is presented here, just as published by the committee except for deletion of footnotes and bibliography, to demonstrate the quality of undergraduate work in the Humanities at Stanford.

missioned pardoners to take these relics on tour and to offer indulgences to anyone who was moved by belief in the relics to donate money toward the upkeep of the hospital.

The practice of offering indulgences inevitably grew corrupt. Selling indulgences became a financial expedient resorted to whenever the Church required money for some special object, such as the construction of the Vatican palace in the sixteenth century. The pardoners engaged to distribute indulgences were prone to exaggerate the efficacy of their indulgences—that is, they sometimes pretended to have the authority to grant indulgences that would release the buyers from hell as well as from purgatory. They might further claim that those who purchased indulgences needed neither to repent nor to amend their lives in order to be pardoned. In short, they created a general belief that their pardons sufficed to free the sinner from all the consequences of his sins.

The moral character of the pardoners varied greatly. Irreproachable men like St. Bernard, Foulques de Neuilly, and Conrad of Marburg, who were empowered to preach for the Crusade, sought rather to inflame the religious ardor of the people than to collect money; yet when money was involved it was impossible to ascertain men's motives and eliminate those base individuals who might create scandal. If such pious men as St. Bernard were included in the ranks of the pardoners, there were also those who, although fully licensed, fobbed off false relics on their listeners; moreover, there were completely unauthorized persons who forged license and relics alike.

As early as 1212 the Church acknowledged the corrupt practices of many pardoners, and the Council of Paris attempted to impose controls on them. Bull after bull recommended that pardoners be restricted to the office for which they were licensed; that they not be allowed to preach but only to read their letters; that every precaution be taken to ensure that only fully licensed pardoners could solicit alms. At the same time, popular literature satirized pardoners. When the preaching friar in *Piers the Plowman* wishes to hold up the Augustinians to scorn, his worst accusation is that they lived by the "pur pardoners craft." Restricted by

the Church and ridiculed by the poets, pardoners nevertheless flourished even after the Council of Trent in 1562 forbade their employment completely; it was difficult to enforce the Council's ruling when pardoners could collaborate with archdeacons and share their profits with parish priests. Even if local clergymen and officials were honest, the hospital-commissioned pardoners enjoyed almost complete immunity from punishment, because complaints against them had to be registered with the Pope himself.

The historical evidence just presented is important to any interpretation of Chaucer's Pardoner. Most critics agree that he is true to his historical archetype. Muriel Bowden declares that the Pardoner of Rouncivale, a thorough scoundrel, represents the only fully developed portrait of an individual *quaestor* in the fourteenth century, and A. L. Kellogg and Louis Haselmayer add that he is just the rogue his contemporaries might have expected. Noting the Pardoner's evil dealings, both J. M. Manly and Marie Hamilton argue that Chaucer was exposing an actual *quaestor* from the hospital at Roncevalles which, although it was French, maintained a cell near Charing Cross in England and was noted at the time for its corrupt dealings.

Whether or not the Pardoner was drawn from life, Mrs. Hamilton thinks he was intended to be a member of the canons regular of an Augustinian priory; H. B. Hinckley, however, considers him a Dominican friar, and J. J. Jusserand thinks him a fraud with forged credentials. I am inclined to agree with Mrs. Hamilton that the Pardoner's bulls are probably legitimate because Chaucer's method of portraying the Pardoner is self-revelation through confession. If his confession is to serve its purpose, it "must be taken on faith" as true. When the Pardoner claims to have come straight from Rome, we should take him at his word. On the other hand, Mrs. Hamilton's assertion that the Pardoner is in major orders—a subdeacon, deacon, or priest—is less convincing. Her main point is that although most pardoners preached, only those in major orders could officiate at the divine service. Yet, since many pardoners preached despite the general prohibition, there is reason to suppose that they also usurped the chancel from time to time. Therefore, I believe that Manly is justified in his conclusion that the Pardoner is in minor orders.

Far more important than the question of the Pardoner's exact status is his character. Why does the man so frankly reveal his own fraudulence at the outset of his tale, telling of the "gaudes" and "japes" he has used to earn one hundred marks every year?

> By this gaude have I wonne, yeer by yeer,
> An hundred mark sith I was pardoner.
> I stonde lyk a clerk in my pulpet,
> And whan the lewed peple is doun yset,
> I preche so as ye han herd bifoore,
> And telle an hundred false japes moore.

Furthermore, why, after confessing his real motives for being a pardoner and exposing the spuriousness of his relics, does he ask the pilgrims to venerate those relics?

THE DEVICE of self-confession can be seen in the prologues of the Wife of Bath and others—this ruse is not reserved for the Pardoner alone. A more specific analogue is found in the clergyman Faux Semblant of the *Romance of the Rose*. Faux Semblant, admitting that profit is his one object, confesses that he will play any role in order to deceive his audience. Ten Brink dismisses the candor of the Pardoner's self-revelation with the explanation that the atmosphere of the *Canterbury Tales* requires just such frankness. G. L. Kittredge explains that the Pardoner's self-revelation is both necessary and clever. The Pardoner, he says, knows himself to be a rascal. He also knows that the other members of the company recognize him as such; consequently, he attempts to show them that he knows they know. "Like many another of us poor mortals, the Pardoner is willing to pass for a knave but objects to being taken for a fool." Jusserand believes the Pardoner is convinced that frankness cannot possibly do him harm—his and other pardoners' practices have time and time again been condemned in papal bulls. Everyone knows a pardoner's reputation, and nothing he can say one way or the other will change it. So, in the intimate warmth of the tavern, he begins to talk. R. M. Lumiansky thinks that the Pardoner joined the pilgrimage with the definite purpose of extracting money from his traveling companions. He directs his words and actions to that end throughout, appealing to the pilgrims' affected worldliness by allowing them to laugh at his method of defrauding simple peasants. After almost succeeding, he fails because he reverts to his habitual crude devices at the crucial moment.

Even more puzzling than the lines which precede the Pardoner's sermon are those which follow it. The Pardoner gives *(Continued on page 44)*

Stanford Books and Authors

A History, a Story, and a Memory

DELIGHTFUL as it might be to return one of the C pluses inflicted on this reviewer by Prof. Wallace Stegner in years past, the concept and workmanship of his latest book achieve a standard precluding petty self-indulgences. *Wolf Willow* is an A paper all the way. It exudes as delicate an aroma as that of the bush for which it is named.

In his subtitle Stegner calls *Wolf Willow* "A History, a Story, and a Memory of the Last Plains Frontier." The locale is the 49th parallel where Montana and Saskatchewan quietly merge along a blurred border nobody seems to notice (except, during Prohibition, a few thirsty Americans). This last frontier is not necessarily the most important or the most interesting frontier, and perhaps Stegner tells more about it than most of us really care to know, but we end up thanking him for proving that history, both personal and public, makes sparkling reading when filtered through the typewriter of a talented novelist.

In few histories—or personal memoirs either, for that matter—will one find as graphic a passage as the one where Stegner describes the "pungent and pervasive . . . smell that has always meant my childhood. I have never smelled it anywhere else . . .":

> It is wolf willow, and not the town or anyone in it, that brings me home. For a few minutes, with a handful of leaves to my nose . . . the present and all the years in between are shed like a boy's clothes dumped on the bath-house bench.

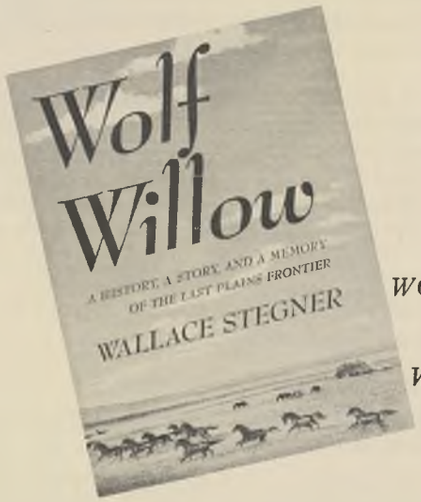
What gives this section of the map a special dimension of historical importance is the fact that so much was telescoped into so short a span of years, and so recently; there are people still alive who experienced the winter of the blue snow, and other milestone events. In describing this harsh country so recently inhabited and not yet tamed, Stegner writes as one memorializing a mother loved not because she was beautiful or particularly kind, but because she was strong and tough, and bequeathed to her sons the gift of self-reliance.

The name of Wallace Stegner is not a household word in America, but where it is known it commands respect. He is intelligent, informed, and wise, and perhaps for this reason he doesn't create the bravura passage that ignites readers' souls and orders the attention of the book clubs. Other men have changed history with burning oversimplifications, but his role seemingly is one of seeing complexity, and understanding it, and explaining it with clarity. He burns with a cool, gemlike flame that gives off more light than heat—which, after all, is what a scholar is supposed to do . . . even the scholar who is also an artist. —*Dan Endsley*

WOLF WILLOW: By Wallace Stegner, Professor of English; Viking Press, New York, 1962; 306 pp.

Tribute to George Pólya

PROFESSOR George Pólya celebrated his 75th birthday last Dec. 13, and for this occasion a group of his friends, students and admirers published a volume containing 60 articles by 70 leading mathematicians. All the papers are of a high level of scholarship and are mostly in fields in which Pólya himself has been active as a research worker; thus most of the topics are chosen from classical analysis or the theory of probability. These have always been Professor Pólya's main fields of interest as witnessed by the list of his publications, which, conveniently, (*continued on page 47*)



autographed copies of *WOLF WILLOW* by *Wallace Stegner* available from

THE STANFORD BOOKSTORE, Stanford, Calif.

Please send me ——— *copy(ies) of WOLF WILLOW*

Name_____

Address_____

City_____ Zone____ State_____

Autograph to_____

Price $5.95, plus delivery charge of 25¢. If residing in California, please add 24¢ sales tax.

Remittance enclosed____ Bill me____

Pearl Harbor:
WARNING AND DECISION

Roberta Wohlstetter

"Mrs. Wohlstetter in my opinion has written the best book by far on the question of why we were surprised at Pearl Harbor. . . . Her book ought finally to dispose of some of the nonsense about Pearl Harbor that has been written."—Samuel Eliot Morison

"What for so long was so woefully needed, a nonpartisan and scholarly exposition of the mysterious moves and machinations leading to Pearl Harbor, is provided in this prodigiously researched, lucidly and excitingly written, and absolutely fair work of scholarship. It is one of those rare specimens in the literature of current history, the definitive book. . . . The book establishes Mrs. Wohlstetter in the front rank of military analysts."—*The New York Times Book Review*

"A magnificent book, perfect in its scholarship and presentation. It sets at rest the nonsense which has been talked about the Pearl Harbor attack over the past twenty years."—Dean Acheson

"Now, more than twenty years after the Japanese surprise, Roberta Wohlstetter has produced incomparably the best book to date upon that subject . . . This is surely one of 1962's outstanding books."—*Baltimore Sun*

"Excellent history. . . . Objective, carefully researched, beautifully organized."—Bernard Brodie

"A remarkable piece of work . . . Certainly stands out as one of the authoritative treatises on the launching of America into World War II."—*Richmond Times-Dispatch*

"An exhaustively researched, beautifully executed work of a trained analyst of international affairs. It is the best book by far that has been published on the question of 'blame' for the disaster at Pearl Harbor."—*Los Angeles Examiner*

"Brilliant synthesis and analysis."—*Kansas City Times*

"From all that has been written about Pearl Harbor, Mrs. Wohlstetter's skillful effort stands out as a notable example of cautious, patient research, of meticulous sorting of evidence, of reasoned presentation of the facts, and sober and objective conclusions."—*Washington Post*

$7.50

Order from your bookstore, please

STANFORD UNIVERSITY PRESS

Forthcoming

JAMES GIBBONS HUNEKER

CRITIC OF THE SEVEN ARTS

ARNOLD T. SCHWAB. A vivid picture of the cultural life of the United States from the 1880's to the 1920's emerges from this first biography of the colorful and highly influential critic of whom Alfred Kazin has said, "Almost singlehanded he brought the new currents of European art and thought to America and made them fashionable." Ibsen, Shaw, and Strindberg; Debussy, Strauss, and Schönberg; Cézanne and Matisse—these are but a few of the artists Huneker championed. Includes entertaining accounts of such figures as Conrad, Shaw, Wilde, Whitman, H. L. Mencken. Illustrated. July. About $7.50

U NU OF BURMA

RICHARD BUTWELL. Based largely on personal interviews with U Nu and other Burmese leaders, and on previously unused Burmese-language sources, this book has a dual purpose: to describe and evaluate the role of U Nu as the most important member of the political elite that has governed Burma during the first fourteen years of Burmese independence (1948–1962), and through this biographical appoach to depict the broad outlines of the Burmese political process. The author attempts to show why U Nu and Burma's other leaders behaved as they did in governing the country, and to describe the nature of the task they faced. August. About $7.50

THE PEOPLE LOOK AT EDUCATIONAL TELEVISION

WILBUR SCHRAMM, JACK LYLE, AND ITHIEL DE SOLA POOL. This report, based on more than 30,000 interviews conducted among the audiences of nine representative educational stations, presents a comprehensive picture of the present status of American educational television, and includes an analysis of the problems it must face and solve. August. About $6.00

STANFORD UNIVERSITY PRESS

Strictly Personal

1906

HURLBUT—Harold H. Hurlbut, after leaving New York and Hollywood, is moving to San Francisco. He has resigned from the New York Players Club and the Hollywood Authors Club (he was for many years vice-president of the latter organization under the presidency of Rupert Hughes). He has for many years been New York representative of Jean de Reszke and has had pupils in leading roles at the Metropolitan and Chicago Opera Companies.

1907

REICHARD—Ada Devendorf Reichard and her husband, De Forest, celebrated their Golden Wedding Anniversary Oct. 24 with a family celebration in Carmel. Mrs. Reichard has long been active in alumni activities on the Monterey Peninsula.

1910

STULL—Karl M. Stull, president and managing director of the Retail Drygoods Association in San Francisco, retired the first of the year. He also retired from his position as Western representative of the National Retail Merchants Association of New York. He had held these posts since 1940 and earlier was ticket sales manager for the San Francisco World's Fair. His last official act was to attend the National Retail Merchants Association convention in New York in January.

1914

MILLER—Clifton M. Miller, LLB '16, is serving as chairman of the Trustees' Committee on Development of Washington College, Chestertown, Md. The committee hopes to raise nearly $10,000,000 for buildings, endowment, student aid, and additional current income.

1918

ELLIOTT—David C. Elliott retired in October as vice-president and economist of Cleveland Trust Co. With the bank since 1947, he had been editor of the Cleveland Trust Business Bulletin. From 1932 to 1947 he was director of research and statistics for the Reconstruction Finance Corp. and earlier he had been with the Federal Reserve Bank of Cleveland. He started his career with the Federal Reserve Board in Washington. Mr. and Mrs. Elliott plan to move to Los Angeles.

WAGENER—Dr. Willis W. Wagener retired in October as senior forest pathologist of the U.S. Forest Service station at Berkeley after 42 years of service in government. He will continue in his profession as a consultant to the experiment station and work as a "dirt" forester managing his 160-acre tree farm near Bucks Lake in Plumas County. He is an internationally known researcher in forest diseases.

1921

BOONE—Walter Frederick Boone, a retired Navy admiral, has been named head of a new office of the National Aeronautics and Space Administration which will help coordinate the activities of the agency with the Department of Defense. He will carry the title of deputy associate administrator for defense affairs.

GOSS—Pierre B. Goss retired the end of January as head of the Palo Alto branch of Bank of America. He began his banking career in 1928 and was manager of the Auburn branch before coming to Palo Alto in 1954. He was a director of the Palo Alto Chamber of Commerce for three years and in 1958 was selected "Boss of the Year" by the Junior Chamber of Commerce. He served on the original organizing committee for the Palo Alto–Stanford Hospital.

WILLIAMS—Arthur L. Williams, Engr. '22, has been appointed chief electrical engineer and assistant manager of the power system of the Los Angeles Department of Water and Power. He joined the department in 1922.

1922

REHFUSS—Carl Rehfuss, Engr. '23, retired in November as general manager of the Richmond refinery of Standard Oil Co. of California after serving with the firm for 38 years. He joined the company in 1924 and had been general manager in Richmond since 1955. It is the largest refinery on the West Coast. Rehfuss has been most active in civic groups and currently is president of the Richmond Chamber of Commerce. His fellow Rotarians honored him at a luncheon in October.

1924

KIRBY—James M. Kirby has been named manager of American Overseas Petroleum, Ltd., in Port Harcourt, Nigeria. He earlier spent four years in Perth, Australia, as managing director of West Australian Petroleum Pty., Ltd.

LEVIT—Bert W. Levit, JD '25, San Francisco attorney, has been named head of a $90,000 fund drive for the San Francisco Aid Retarded Children in 1963. The organization provides assistance for the retarded from nursery school to job training for young adults.

1925

CHASE—H. Stephen Chase, executive vice-president of Wells Fargo Bank, recently observed his 35th anniversary in the field of banking.

1926

KOHLER—Judge Mary Conway Kohler is chairman of the executive committee of the National Committee on the Employment of Youth. She is a nationally known authority on juvenile delinquency and served 15 years with the San Francisco Juvenile Court. She moved to New York in 1953 and became a consultant on family and children's courts to the New York Temporary Commission on Courts.

HAROLD H. HURLBUT
See Class of 1906

KROTZ—Donald P. Krotz has been elected a director and vice-president of California Research Corp., a subsidiary of Standard Oil Co. of California. He will continue as corporate secretary and business manager of the firm. He joined Standard of California in 1926.

1927

IAMS—Harley Iams has been named manager of administration and services, comprising technical service, contracts, finance, administration, and personnel, at Hughes Research Laboratories, Malibu. He has been with Hughes for 13 years.

POST—Alfred B. Post has been named co-manager of the Los Angeles office of Glore, Forgan and Co., member of the New York Stock Exchange. He has more than 20 years of experience in the securities business and is a past president of the Los Angeles Society of Financial Analysts. He currently is president of the Stanford Club of Los Angeles.

1928

BRAMKAMP—Lynn Bramkamp has been named manager of California Processing Apple Growers in Sebastopol. He has been a farmer and has been associated with various agricultural associations.

SPRINGER—John Springer, MBA '29, PhD '42, executive director of the Western Highway Institute, recently returned from a month in Europe where, as a special representative of the Department of Commerce, he investigated the rapidly growing highway transport industry of Europe.

1929

HARDER—Theodore Harder, registrar and professor of physical education at the University of California at Santa Barbara, is on leave of absence for the spring semester. He and his wife will spend 10 weeks in South America where he will explore possible South American locales for a University of California "education abroad" center and will meet with educators concerning problems of transfer credit.

SIMON—Dr. Edwin J. Simon has returned to Riverside, where he is head of the University of California's music department, after spend-

ing a year in Europe while on sabbatical leave.

1930

Marriages

WENIG-ALLEN—Herbert Edward Wenig to Beverlie Secor Allen, Oct. 13 in San Francisco. They will live in Belvedere. The groom is an assistant attorney general of California. The bride, a widow, has two children, Deborah, 14, and Jeoffrey, 11.

1931

FIXOTT—Col. Richard S. Fixott has been assigned as commander of the Air Force Hospital, Lajes Air Transport Station, Azores, Portugal. He earlier had been at the Air Force Academy in Colorado Springs.

GOLDWATER—Robert W. Goldwater, president of Goldwater's of Arizona, has been elected a director of Associated Dry Goods Corp. The firm recently acquired the three Goldwater stores as a separate division.

LYNDEN—John R. Lynden Jr., MBA '33, has been promoted to district sales manager of the Minneapolis–St. Paul district of Shell Oil Co. He and his wife, the former Madeleine Speik, '33, live in Edina. They have three Stanford sons—John, '57, MBA '59; Fred, '60, AM '61; and Jim, '65.

SUTRO—Robert Sutro, AM '32, president of Ralph C. Sutro Co., pioneer Los Angeles mortgage banker, has prepared a 20-page booklet for the Mortgage Bankers Association of America describing the role of the mortgage banker in the investment field and the advantages of mortgages as an investment medium. The booklet is titled "Trusteed Funds Discover Higher Yield in Familiar Field."

WEST—Roy West recently opened new offices for his San Francisco real estate firm.

1932

BARTLETT—John C. Bartlett has been elected president of the Nevada State Bar. He has practiced in Nevada since 1946; is a former deputy district attorney of Washoe County, which includes Reno.

BELL—James F. Bell has been named general manager of Mobil Chemical Co.'s petrochemicals division. He joined Mobil in 1959 at Los Angeles and earlier was executive vice-president and director of Northwest Natural Gas Co., Portland. He has been in the New York offices since 1961 and in his new post will be responsible for petrochemical sales and operations at Naples, Italy, and Beaumont, Tex.

GAY—Thomas R. Gay has been named general traffic engineer in the Los Angeles–North area of Pacific Telephone and Telegraph Co. He has been in the communications field since 1935.

KRUMBEIN—William J. Krumbein has left the employ of the Worthington Corp. and is now area mechanical superintendent at the Nevada test site for Reynolds Electrical & Engineering Corp., prime contractors for construction and maintenance of the site.

WOOTAN—John T. Wootan Jr., supervisor of pipeline engineering for the Southern California Gas Co., has received one of the Pacific Coast Gas Association's annual awards for his study and presentation on methods of sandblasting the interior of gas transmission lines to increase their gas deliverability.

1933

DOLBEY—James M. Dolbey has been named a district manager for Thermo-Fax Sales, Inc., a subsidiary of Minnesota Mining and Manufacturing Co. He is responsible for the Cincinnati, Louisville, and Lexington, Ky., districts.

FERNALD—Gordon H. Fernald Jr. has been named chief of the engineering division of the U.S. Army Engineers in the North Pacific area. He has been an employee of the corps since 1934 and most recently was chief of the planning and reports branch of the engineering division.

1934

HERZOG—Dr. George K. Herzog Jr., MD '38, has been elected secretary of the San Francisco Medical Society. He was a victorious write-in candidate for the position. His specialty is obstetrics and gynecology.

JAEKLE—William M. Jaekle has been promoted from general manager of Southern Pacific Co.'s Pacific Lines to the new post of assistant vice-president of system operations.

WHITAKER—F. Gordon Whitaker has been assigned to Afghanistan with the U.S. Agency for International Development. He had been regional irrigation supervisor with the Bureau of Reclamation in Boise, Idaho, and will be water resources engineer for the Afghan Mission in his new post.

1935

ANDERSON—Kerby T. Anderson has joined the executive staff of Guild Wine Co. of Lodi in the field of public relations and management assistance. He is a director of the California Wine Institute and Wine Advisory Board. For eight years he had been general manager of East-Side Winery of Lodi.

HERMAN—Robert S. Herman has been named fiscal and real estate officer of the Jersey City Redevelopment Agency. The agency is working on a number of urban renewal programs.

THOMAS — Barbara Crawford Thomas is serving in her second year as president of the Downey Women's Club. A resident of Downey for 10 years, she has been active in a number of civic groups.

VON HAFFTEN—Alexander von Hafften, MBA '39, who is with the Northern California Suppliers Association, served as chairman of the 1962 Christmas Seal Campaign in San Francisco.

1936

BRANDIN—Alf E. Brandin, vice-president for business affairs at Stanford, has been elected to the boards of directors of California Financial Corp. and its major subsidiary, Security Savings and Loan Association.

BUTTERWORTH—Edward L. Butterworth, LLB '39, is serving as mayor of Arcadia, Calif.

KENNEDY—Dr. William D. Kennedy, PhD '40, has been appointed head of the division of physics at the Tennessee Eastman Research Laboratories, Kingsport, Tenn. He had been a research associate before being named to the newly created position. He joined the Eastman Kodak Co. division in 1946 after serving as a research supervisor at Woods Hole Oceanographic Institute.

LIVINGSTON—Dr. Kenneth E. Livingston, Portland, Ore., neurosurgeon, has been named medical educator for the U.S. Agency for International Development in Shiraz, Iran. He will work with the Iran-U.S. Public Health Service Cooperative, which is expanding and improving education for doctors, nurses, dietitians, and medical technicians. He earlier had been in Iran as a visiting professor of neurosurgery at Shiraz University.

MOTHERWELL — Robert Motherwell recently had some of his art work exhibited at the Downey Museum of Art.

ROSENBERG—Sydney J. Rosenberg is the president of American Building Maintenance Industries, which recently sold shares to the public for the first time in its more than 50-year history. The "Giant Janitor" has acquired four more janitorial contract service companies. With corporate headquarters in San Francisco, the firm operates in 72 communities in 13 states and two Canadian provinces.

SYDNEY J. ROSENBERG
See Class of 1936

ROBERT SUTRO
See Class of 1931

STARK—Dr. Richard B. Stark, associate clinical professor of surgery, College of Physicians and Surgeons, Columbia University, recently returned from a lecture and operating trip to Manila, Korea, and Japan. His text, *Plastic Surgery*, recently was published by Hoeber Medical Division, Harper & Row, New York.

1937

KLAUBER — Philip M. Klauber has been named vice-president, engineering, of San Diego Gas and Electric Co. He earlier had been chief administrative engineer of Solar Aircraft Co.

McDANIEL—Thomas Madison McDaniel Jr., MBA '39, executive vice-president of the Southern California Edison Co., has been elected to the board of directors of the American Mutual Fund. He also is a director of Associated Southern Investment Co., Pacific Coast Electrical Association, and the Los Angeles Better Business Bureau.

1938

HOVEY—Willard P. Hovey Jr. has been named an assistant vice-president at the Pasadena main office of United California Bank. He joined the bank in 1958.

1939

CAMERON—Col. Harry Frank Cameron Jr. recently returned from Tehran, Iran, where he was in charge of military and foreign aid construction in Afghanistan, Burma, Iran, Pakistan, and Saudi Arabia. His present assignment is as engineer, XVIII Airborne Corps, which commands all STRAC units, the U.S. Army Ready Force.

McINTYRE—Charles H. McIntyre has been named operations manager of the Republic Supply Co. of California's Oil Division. He has been with the firm since 1939.

1940

SCHAUPP—Dr. John B. Schaupp, MD '44, has been named president-elect of the San Francisco Medical Society. An obstetrician and gynecologist, he will take office as president next year.

PHILIP M. KLAUBER
See Class of 1937

THOMAS MADISON MCDANIEL JR.
See Class of 1937

1941

MOORE—The Rev. John V. Moore has been assigned as senior minister of the Glide Memorial Methodist Church in San Francisco. He has served pastorates in Hayward, Chico, and Del Paso Heights.

SMITH—Kenneth O. Smith, veteran newsman and public relations official, has been named to the faculty of the University of California at Los Angeles department of journalism. Most recently director of public relations for Western Air Lines, he is active in a number of professional groups. He currently is vice-president of the Los Angeles chapter of the Public Relations Society of America.

URI—George W. Uri, IA '43, MBA '46, spoke on the tax consequences following a divorce or separation at a recent Tax Accounting Conference sponsored by the California Society of Certified Public Accountants in San Francisco. He is with the firm of Irelan & Uri in San Francisco.

Births

MARKS—To Assemblyman and Mrs. Milton Marks, a second son and third child, Edward David, July 4. The father represents San Francisco's 21st Assembly District.

1942

BRAVOS—Theodore A. Bravos, hospital business administrator at the Langley Porter Neuropsychiatric Institute, San Francisco, presented a paper at the 14th annual Mental Hospital Institute in September in Miami Beach. His topic was "The Mentally Ill Offender and the Law."

CAHILL—Richard F. Cahill, who is with Cahill Brothers, Inc., is a vice-president of the Northern and Central California Chapter, Associated General Contractors, and served as co-chairman of the labor committee negotiating contracts for management.

CONDIE—Ellen Wylie Condie has been appointed manager of the Andrew W. Lerios, Inc., Travel Service office in Redwood City. She formerly was in the international sales department of the firm's Palo Alto office.

HANSEN—Arthur B. Hansen has joined the A. A. Yee Structural Engineering firm of Honolulu and has moved from Menlo Park to Hawaii with his family.

HOUGH—Gordon L. Hough, MBA '47, has been named general manager of the new Los Angeles-Central area of Pacific Telephone and Telegraph Co. He started with the firm as a traffic student in 1948 and had been assistant vice-president, administration, in Sacramento.

TOMASO—S. Edward Tomaso, South Pasadena Certified Public Accountant, has been reappointed chairman of the committee on relations with non-profit organizations of the American Institute of CPAs. He is a partner in the Los Angeles accounting firm of Lewis & Tomaso.

1943

MacILVAINE—C. A. (Chad) MacIlvaine has been elected treasurer of Kaiser Steel Corp. He joined Kaiser Steel in 1946 as accounting trainee and most recently had been assistant controller in the Oakland general office. His wife is the former Beth Babcock, '43. They have three children, including Judith Anne, '65.

Marriages

STRAWBRIDGE - JEWEL — Nancy Meyer Strawbridge to Howard Haven Jewel, in November in Copenhagen. They will live in Marin County. The bride is administrative assistant to Attorney General Stanley Mosk and the groom is an assistant attorney general of California.

Births

FREEMAN—To Mr. and Mrs. Verne Freeman, '43, MS '47 (Joanne O'Brien, '47), a son, Jeffrey Michael, Dec. 10. He joins Verne Jr., 6½, Christina, 5, Suzanne, 3, and Jon, 1½.

1944

BAILEY—Morton S. Bailey Jr. has been named manager of the New York advertising sales office of the *Saturday Evening Post*. With the Curtis Publishing Co. since 1948, he earlier was with Sawyer-Ferguson-Walker Co., newspaper representatives, and with the *San Francisco Chronicle*.

HOWELL—John Wesley Howell Jr. is head of a new corporation which has leased Reno Ski Bowl from Washoe County. A long-range modernization plan for the area is being put into effect.

1946

BLECK—Clay S. Bleck has been named the Dodge dealer of Spokane and the Inland Empire. He is the new president of Dodge City, Inc., located in Spokane. In the automotive business in suburban Spokane for 11 years, he earlier had been in the auto and truck business in Portland.

GREGG—William P. Gregg, formerly district sales manager for Allstate Insurance Cos. in the Pomona-Corona-Fontana area, has been promoted to field service manager in charge of the sales force in Pomona, Riverside County, San Bernardino County, and a portion of Orange County.

1947

CHURCH—John L. Church, MBA '49, has been named vice-president in charge of the United States office of Booz, Allen & Hamilton International, Inc. He and his family have

moved from Palo Alto to Connecticut. His offices will be in New York. Prior to joining the international company, he was with Booz, Allen & Hamilton, Inc., in Los Angeles and San Francisco.

SIMPSON—Dr. Dwight J. Simpson, PhD '50, associate professor of political science at Williams College, Mass., has been elected to membership in the Royal Central Asian Society, the eighth American citizen to have been invited to membership since the society was chartered in the 18th Century. The RCAS was started to foster knowledge and study of the area now designated as the Middle East, the area which has been Dr. Simpson's special field of study.

Births

SCHAFFER—To Dr. and Mrs. Richard D. Schafler, '47, MD '51 (Emily Angle, '48), a third daughter, Mary Angle, Sept. 15. She joins Susan, 7, and Teresa, 6. The father has his urological surgery practice in San Mateo.

1948

CHAIMOV—Dr. Alan L. Chaimov has joined the staff of the Corvallis Clinic with a specialty practice in ophthalmology. He graduated from the University of Oregon Medical School and did his specialty training at the Mayo Clinic.

CROOKHAM—Charles S. Crookham has been named a circuit judge in Multnomah County, Ore., by Governor Hatfield. A native of Oregon, he had practiced law in Portland since 1952.

EBERTING — Corwin H. Eberting Jr. has been elected to the board of directors of the Redondo Beach Chamber of Commerce. An architect, he began his practice in Southern California after graduate work at the Harvard Graduate School of Design.

KNERL—Robert R. Knerl has joined Zinsco Electrical Products, Los Angeles, as national sales manager of the Jeffries Transformer Division.

LORD—Alfred Lord, LLB '52, has been named a judge of the Municipal Court, El Cajon Judicial District, by Governor Brown. He had been with the San Diego law firm of Gray, Cary, Ames and Frye since 1952.

QUIST—George Quist has been appointed financial vice-president of Mackay Homes, residential construction firm active in the San Francisco Bay area and Sacramento. For the past five years he had been president of Mandrel Industries. He also had been a director of Mackay. Quist and his wife live in Woodside with their three children.

SARGENT — Wayne C. Sargent has been named Southern Division manager of United Press International and will move to Atlanta, Ga., from Los Angeles. He earlier had been business manager for Southern California, Arizona, and Southern Nevada. With UPI since 1948, he was in Sacramento before going to Los Angeles in 1956.

SLENTZ—Dr. Loren W. Slentz, MS '50, has been named group supervisor of geologic development and technical service in the geology section of the La Habra Laboratory of California Research Corp., a Standard Oil Co. of California subsidiary. He has been with Calresearch since 1955.

VON ROSPACH—Marion Morrow von Rospach is publisher of the *Overseas Weekly*

GORDON L. HOUGH
See Class of 1942

and the *Overseas Family*, both of which have won awards this year. The *Weekly* was cited by the American Newspaper Guild for the Heywood Broun award in connection with the paper's reporting of the General Walker case. The *Family* was awarded the "School Bell" by the National Education Association for excellent school reporting. They are both printed in Frankfurt, Germany.

Births

GREB—To Mr. and Mrs. Gordon Greb (Darlene Alcock, '48), a daughter, Darla Jean, Aug. 11 in San Jose. She joins a brother, Gary. The father is a professor at San Jose State College.

GUYER — To Mr. and Mrs. David Leigh Guyer, '48 (Carol Penney, '51), a daughter, Marion Leslie, Aug. 31. They live in New York City.

MYERS—To Mr. and Mrs. Paul Myers Jr., '48, LLB '50 (Margaret Cox, '48), their seventh child, a son, Alexander Polk, in November. They live in Los Altos.

1949

STIMSON—John D. Stimson has been named manager of the United AeroSpace division of United ElectroDynamics, Inc., Pasadena. He earlier had been the division's marketing manager.

UNDERWOOD—Gerald V. Underwood, LLB '50, has been named to the Modesto City Board of Zoning Adjustment. He has practiced law in Modesto for more than 10 years.

1950

BURNS—Eloise Beil Burns has been named president of Brahms Cradle of Booth Memorial Hospital in the East Bay. She is also active in the Stanford Women's Club of the East Bay and has been treasurer and press chairman.

DENNIS—Reid W. Dennis, MBA '52, has been elected a vice-president of Fireman's Fund Insurance Co. in San Francisco. He joined the firm in 1952 and had been assistant vice-president and manager of the investment department since 1958.

LEVY—Dr. Joseph V. Levy has received a three-year research grant from the American Heart Association for support of his research dealing with the effects of various heart drugs. He is a research associate at the Presbyterian Medical Center, San Francisco. He recently presented a report on some of his research at the International Congress on Hormonal Steroids in Milan. His wife is the former Joanne Presley, '55.

MANNON — Fred W. Mannon has been named industrial relations director of the *San Jose Mercury* and *News*.

MARGLOIS—Alfred L. Marglois has opened offices for the practice of law in Los Angeles where he will specialize in tax matters. After receiving his law degree from Western Reserve University in 1956 he joined the Department of Justice in Washington, D.C. For more than four years he was an attorney in the office of the regional counsel, Internal Revenue Service, in Los Angeles.

ODELL—Rice Odell, business editor of the *Washington Daily News*, wrote the recently published "Congressman's Coloring Book," a spoof of the Nation's legislators. It deals with such problems as the farm surplus, junkets at taxpayers' expense, lobbyists, campaigns, and committee investigations. Drawings are by Joaquin De Alba.

SAVAGE—Dr. Jay M. Savage, AM '54, PhD '55, a member of the biology faculty of the University of Southern California, will head a seminar in tropical biology at the University of Costa Rica this summer for the third successive year. The seminar is supported by the National Science Foundation and is designed for teachers of biological science at the college level.

WERLIN—Jerry Werlin has been named product manager, digital systems, of Canoga Electronics Corp., Van Nuys. He formerly had been director of customer relations and a member of the management committee of Computer Equipment Corp., Los Angeles.

Marriages

CARLSMITH-POPE—Donn Wendell Carlsmith to Jean McCallum Pope, Dec. 1 in Menlo Park. They will live on the Island of Hawaii.

Births

STEINY—To Mr. and Mrs. Tom Steiny, '50, a daughter, Dianna, Oct. 24. She joins three

CHARLES H. MCINTYRE
See Class of 1939

C. A. (CHAD) MACILVAINE
See Class of 1943

brothers, Donald, 10, Douglas, 8, and Dick, 6. They live in Carmel Valley.

1951

CAMERON—Richard W. Cameron has joined the property-management staff of Henry Broderick, Inc., Seattle. He earlier had been a vice-president of Martin Nelson & Co.

CHANDLER—Otis Chandler, publisher of the *Los Angeles Times* and a Stanford Trustee, recently received an achievement award from the University of Southern California School of Journalism Alumni Association. The awards are made for "editorial excellence in the major communications media."

FROELICH—Charles W. Froelich Jr. is acting professor of law for the spring term at the University of California School of Law (Boalt Hall). He is teaching income taxation and selected problems in the taxation of business enterprise.

HINSHAW—Ernest T. Hinshaw Jr. has been elected a vice-president of Capital Research Co. and will be operations manager of the New York office. He has been with the Capital Research group since 1957.

MICHAUD—A. G. (Tim) Michaud has been appointed a vice-president of the Draper Cos., San Francisco. He joined the Draper organization in 1961 and earlier had been with U.S. Steel Corp. and Fibreboard Paper Products Corp. The Draper firm is one of the largest real estate development corporations in Northern California.

SHELLING—Claus H. Shelling, MBA '54, has been qualified for Mutual of New York's Top Club, an annual sales-honor organization. He is associated with MONY's Palo Alto agency.

TEMPLE—Robert G. Temple, former account manager in Dow Chemical Co.'s San Francisco office, has been named product sales manager in industrial chemicals sales. He joined Dow in 1951 and was named an account manager last year. The family will move from Palo Alto to Midland, Mich.

Marriages

CASSADY-MORRIS—Jeremy Vail Cassady to Helen Zierott Morris, recently in Long Beach. They will live in Naples.

DINKELSPIEL-SEYMOUR—Lloyd Dinkelspiel Jr. to Jeanne Debs Seymour, Nov. 15 in San Francisco. They will live in San Francisco where the groom is an attorney.

FINDLAY-MARKLE—Shirley L. Findlay to James T. Markle. They will live in San Francisco.

Births

CALVIN—To Dr. and Mrs. James W. Calvin, '51, a daughter, Caroline Louise, Aug. 18. The father is a fourth-year resident in general surgery at Stanford. They live in Menlo Park.

CUSICK—To Mr. and Mrs. Joseph D. Cusick, '51 (Kathy Moore, '51), their eighth child, a son, John Hilyard-Hume, Nov. 5 in Mountain View. He joins four brothers and three sisters. The father recently was relieved from 10 months of active duty with the Navy and is back at Lockheed in Sunnyvale.

1952

BIONDO—Beverley Towner Biondo has been named Heart Sunday chairman of the 1963 Heart Fund campaign in San Diego. She will guide more than 10,000 volunteers during the February drive. The same post was held by another Stanford alumna last year—Mary Cooke Jessop, '47.

BROWN—James G. Brown, AM '55, is the newly appointed chairman of the science department at Galileo High School, San Francisco. During the summer he served as vice-principal of the summer session held at Abraham Lincoln High School.

LEPAPE—Harry L. Lepape, LLB '56, has been appointed vice-president of U.S. Natural Gas Corp., Los Angeles. He formerly was assistant counsel for Southern Counties Gas Co. and earlier had been an attorney for Honolulu Oil Corp., San Francisco.

McELYEA—J. Richard McElyea, MBA '54, has been named senior associate economist for Economic Research Associates, Los Angeles. He earlier had been head of Stanford Research Institute's Southern California land development economics research program.

MERCHANT—Alan C. Merchant, MD '55, his wife, the former Joan McCormick, '52, and their children (Tom, 8, Jan, 6, and Bob, 5) have moved to Sunnyvale. He has established an orthopedic surgery practice in Mountain View. They had been in Iowa City, Iowa, where he was a resident at the University Hospitals.

JOHN L. CHURCH
See Class of 1947

Births

BATES—To Mr. and Mrs. Lawrence P (Pete) Bates, '52 (Florence Knorp, '52, AM 53), a daughter, Sarah Florence, July 5. She joins two sisters, Mary Ellen, 8, and Amy, 6

CANTLEN—To Mr. and Mrs. Henry Richard (Pike) Cantlen Jr., '52, their first child, a daughter, Kimberly Michelle, Nov. 14 in San Francisco. The father is a salesman with Kaiser Steel in Oakland.

COX—To Mr. and Mrs. Conrad Lee Cox, '52, LLB '54 (Joan Anthony, '53), a daughter, Nancy Kathleen, Sept. 30. She joins Susan, 4, and Kevin, 2½. The father, a member of the law firm of Bell and Cox, is president of the Mendocino County Bar Association and a member of the Ukiah Elementary School Board. The mother is immediate past-president of the Ukiah Branch, American Association of University Women.

WHEELER—To Mr. and Mrs. Samuel C. Wheeler (Leslie Bradford, '52), a third son, Edward Tevis, Aug. 31 in Portland. He joins John Coleman, 3, and Charles Bradford, 2. They live in Lebanon, Ore.

1953

BLANK—Maj. Joseph D. Blank recently completed the officer familiarization course at the Transportation School, Fort Eustis, Va.

BRITTAIN—Kilbee Cormack Brittain received her PhD in English Renaissance literature from UCLA in December. She and her husband, M. L. Brittain III, live in Los Angeles with their two children, Carol, 2½, and David, 14 months.

CHASE—Suzanne Henry Chase and her husband, Lee, have recently returned from a three-month tour of the world.

CHEZ—Joseph M. Chez, with New England Mutual Life Insurance Co. of Boston in Sacramento, has earned the National Quality Award for 1962.

FIRESTONE—Dr. Frederick N. Firestone, MD '56, has completed a tour as chief of the pediatric and female general surgical sections at the U.S. Army Hospital, Frankfurt, Germany. He currently is resident in surgery and senior fellow in cardiovascular surgery at Children's Hospital Medical Center in Boston. He plans to return to San Francisco to practice this fall.

FREEDLE—Dr. Ernest M. Freedle Jr., MD '56, is continuing his orthopedic surgery training at the Duke University Medical Center. He currently is chief orthopedic resident at the Veterans Administration Hospital in Durham, N.C., and earlier had been resident in children's orthopedics at the Shriners' Hospital in Greenville, S.C.

SHANBERG—Paul M. Shanberg, former senior systems and procedures analyst with the controller's office, has been appointed controller of the sand and gravel division of Henry J. Kaiser Co., Oakland.

TAUBE—Thaddeus N. Taube has been elected a director of E-H Research Laboratories, Inc., Oakland manufacturer of electronic test instruments. He is vice-president in charge of manufacturing. He lives in San Mateo with his wife, the former Gretchen Foote, '59, and two children, Mark, 5, and Paula, 3.

Births

EMANUEL—To Mr. and Mrs. David A. Emanuel (Jessie Gray, '53), a son, David Arthur Jr., Dec. 16 in Palo Alto. The father is with Lockheed at Stanford and the mother is the former Clubs Secretary at the Alumni Office. They live in San Jose.

HERRMANN—To Mr. and Mrs. A. P. Herrmann (Sally Grunigen, RN '53), a daughter, Sarah Beth, Oct. 23 in San Rafael. She joins Keith Paul, 5, and Kenneth Russell, 2½. The father is with Pacific Telephone in Napa.

JOHNSON—Lt. and Mrs. Eldon D. Johnson (Dixie L. Hayes, '53, AM '54) have adopted a son, Richard Eldon, born Feb. 3, 1962. The father is currently assigned with the U.S. Naval Mission to Colombia at Barranquilla.

LEVIN—To Mr. and Mrs. Harold Levin (Phyllis Silver, '53), a son, Alan, Oct. 19 in San Mateo.

MILLER—To Mr. and Mrs. Robert Bruce Miller Jr., '53, AM '57 (Brenda Sorey, '56, AM '57), a son, William David, Sept. 22 in Palo Alto. He joins a brother, Richard Bruce, 2. The father is principal of Crescent Park Elementary School, Palo Alto.

1954

BENNETT—Joseph C. Bennett has been elected a director of the Molybdenum Corp. of America. He is assistant vice-president of South American Gold and Platinum Co. and International Mining Corp.

MATTHEW—Theodore B. Matthew, MS '55, has been named manager of Oregon Technical Products, a new division of Textron, Oregon. He and his family have recently moved to Grants Pass where the electronics manufacturing facility is located. His wife is the former Eileen Helm, '55, AM '56. They have a son, Scott, 3.

TRUEBLOOD—Peter W. B. Trueblood has been assigned as a lending officer at the new Amsterdam office of Bank of America which opened in November. He and his wife, the former Nancy Nicholson, '54, have moved to The Netherlands with their two sons, Stephen and Matthew.

Marriages

HEIDT-DANIELSON—Gerald Horace Heidt to Karin Lynn Danielson, Nov. 14 in Beverly Hills. They will live in Santa Monica.

ROE-McADAMS—Kenneth Sherwood Roe to Joan McAdams. The groom is an English instructor at Shasta College, Redding, and writes articles and short stories for both mass circulation and literary magazines.

Births

CULVER—To Mr. and Mrs. Robert Winthrop Culver, '54, a son, Robert Winthrop Jr., Oct. 18 in Los Angeles.

GEORGE—To Mr. and Mrs. Fred B. George, '54, MBA '56 (Marice Hind, '54, AM '55), a second daughter, Heidi Linda, Sept. 3 in Walnut Creek. She joins Maile, 5. The father is with the Heil Equipment Co.

HACKEL—To Dr. and Mrs. Alvin Hackel, '54, MD '57, a son, Steven, Aug. 26. He joins a sister, Jamie, 2. The father is a lieutenant in the Navy at Long Beach.

McLEAN—To Mr. and Mrs. George D. McLean, '54 (Jean Rafferty, '59), a son, Sean Arthur, July 26. He joins a sister, Rachel. The father is teaching art at Wilbur Junior High School in Palo Alto following a year of teaching in England.

ROSEN—To Mr. and Mrs. Ronald S. Rosen, '54, LLB '57, a son, Matthew Howard, Dec. 15 in Los Angeles. He joins Philip, 2. The father is a partner in the law firm of Silverberg and Rosen.

VAN DRUTEN—To Dr. and Mrs. William van Druten, '54, MD '57 (Sharon Porter, '57), a daughter, Patricia Joan, Sept. 25 at Travis Air Force Base. She joins Jimmy, 3½, and Susie, 2. The father is chief of the psychiatric outpatient department at Travis Hospital.

1955

CLARK—Dr. John R. Clark has joined the staff of the Artesia, Calif., community hospital and clinic. He received his medical degree from Hahnemann Medical College and recently was discharged from active duty in the Navy.

EGAN—Dr. Raymond D. Egan, MS '56, has been appointed to the new post of advanced communications manager of Granger Associates, Palo Alto communications systems company. He joined the firm a year ago and earlier had been on the staff of the Stanford Radioscience Laboratory.

FIRESTONE—Kimball C. Firestone, MBA '62, has been named a sales representative with Blyth & Co. in San Francisco.

IVEY—Dr. Allen E. Ivey, director of counseling at Bucknell University, Pa., has been appointed visiting consultant on counseling to the Office of Manpower, Automation, and Training, U.S. Department of Labor. He also has been named research consultant to the Midwest Program of Airborne Television Instruction, Purdue University.

Births

CROWLEY—To Mr. and Mrs. Bernard F. Crowley (Bette-luise Kneeland, '55), a son, Bernard Jr., Sept. 20 in Winchester, Mass. He has three sisters—Dianna, 5½; Bette-lu, 3½, and Susanne, 1½.

McCONE—To Mr. and Mrs. Michael McCone (Nini Charles, '55), a son, Matthew Elliott, Nov. 22 in Freetown, Sierra Leone.

ERNEST T. HINSHAW JR.
See Class of 1951

He joins two brothers, Michael and Marron. The father is a deputy representative of the Peace Corps.

MORRIS—To Mr. and Mrs. Robert Selig Morris, '55, AM '56, a son, James Padgitt, Dec. 5. He joins a sister, Catherine Crews, 2.

TURNBULL—To Mr. and Mrs. Bruce Turnbull, '55 (Carol Patricia Halperin, '56), a son, Scott Cameron, Sept. 29 in Arcadia. He joins Therese Colleen, 3. The father is an advertising executive with Prudential Insurance Co.

UP DE GRAFF—To Mr. and Mrs. Thaddeus L. Up de Graff Jr. (Elizabeth Livadary, '55), a daughter, Teresa Anne, Sept. 19 in Los Angeles. She joins Lisa, 2½.

1956

DAVIES—Lt. David C. Davies recently was assigned as assistant post judge advocate at the Presidio of San Francisco. He earlier had been serving in the Far East.

PIGOTT—Charles M. Pigott has been elected executive vice-president of the Pacific Car and Foundry Co., Seattle. He had been assistant vice-president and assistant general manager in charge of manufacturing operations at the Renton division.

Marriages

ALEXANDER-GAISSER — Arthur Stirling Alexander to Patricia Marie Gaisser, Sept. 15 in New Canaan, Conn. They will live in New York.

KIRKMAN-DUDAL—Will Roberts Kirkman to Marie Francois Dudal, recently in Palo Alto. They will live in Berkeley while the groom continues his studies at the University of California.

LATTA-KUHLMANN—John Latta III to Hildegarde Kuhlmann, Nov. 17 in New York City. They will live in Newport Beach where the groom has become associated with Aero Neutronics.

SEVIER-PRICE—John Randolph Sevier to Margaret Price, Sept. 15 in Harwich Port, Mass.

WAHLBERG-ELSE—Carolyn Joan Wahlberg to Floyd W. Else Jr. They will live in Lincoln, Neb.

Births

GARIN—To Mr. and Mrs. Andrew E. Garin (Janet Lockwood, '56, AM '57), a son, Andrew Richard, Nov. 21. He joins a sister, Monica Jean, 1½. The father is with Warren Transportation Co., Hayward.

LOOMIS—To Mr. and Mrs. Alden Loomis, '56 (Gay Wilkie, '58), a son, Scott Alden, Oct. 16 in Glendale. He joins Tom Wilkie, 2. The father is a geologist with Jet Propulsion Laboratories.

MacCOLL—To Mr. and Mrs. William B. MacColl Jr. (Stephanie Chase, '56), a son, Ian Coats, June 18. He joins a sister, Lauren, 1½. They live in San Francisco.

SAMMET—To Mr. and Mrs. James L. Sammet, '56, LLB '59 (Carol Harris, '58), a son, Phillip James, Oct. 21 in Palo Alto. He joins Jeffrey Lee, 4, and Michael Harris, 2. The family has recently moved to Atherton. The father practices law in San Francisco. Maternal grandmother is Bernice Windt Harris, '26.

SMITH—To Mr. and Mrs. James Lewis Smith, '56 (Marcia Daniel, '56), a son, Mark Lewis, Oct. 15 in Bellevue, Wash. He joins a sister, Jamie Elizabeth, 3. The father is general manager of Heath Northwest, Inc., of Seattle, manufacturers of illuminated signs, and is also president of Heath Lighting, Inc. Maternal grandfather is John Daniel Jr., '29.

THOMAS—To Dr. and Mrs. H. Stephens Thomas, '56, MD '59 (Anne Smoyer, '60), their first child, a son, Winston Stephens, July 28. The father is a surgical resident at Harbor General Hospital and they live in Torrance, Calif.

WILBUR—To Mr. and Mrs. Colburn Wilbur, '56, a daughter, Marguerite, in November.

WOOLLETT—To Mr. and Mrs. William Woollett Jr. (Diane Hartshorn, '56), a daughter, Sara Helen, June 8 in Pasadena. She joins William Duane, 1½. The father is city manager of Temple City.

1957

GOLD—Daniel E. Gold has joined the Federal Aviation Agency as an attorney on the staff of the general counsel. He is a graduate of Harvard Law School and recently completed duty with the Judge Advocate General's Office at Fort Eustis, Va. He married Lesley Madfis in 1961.

HARTZ—J. Ernest Hartz received his law degree from Boalt Hall, University of California, in 1961 and has joined the firm of Brobeck, Phleger & Harrison in San Francisco after spending a year at University College, Oxford.

INDERBITZEN—Anton L. Inderbitzen is a marine geologist with Lockheed-California Co. He has designed a corer which can bring up five-foot-long sea-bottom samples from any ocean depth without changing their physical properties. It can be employed for commercial and scientific purposes.

Peace Corps in Ghana

SIX ALUMNI are among the 110 Peace Corps workers serving two-year assignments as teachers in secondary schools in Ghana.

They are Carol Bodey, '60, AM '61, Belva Bougquist, '60, Kenneth Brown, '61, AM '62, Rosemary George, '61, AM '62, Ralph Gillman, '62, and Barbara Straub, '61.

JOSEPH C. BENNETT
See Class of 1954

LYNDEN—John Ross Lynden III, MBA '59, was recently discharged from active Army duty with the 52nd Transportation Bn. at Ford Ord, with the rank of first lieutenant, and is in the executive training program at Wells Fargo Bank. He and his wife, the former Ann Galbraith, '60, live in Palo Alto with their two children—Jennifer, 2, and Dede, 1.

McCRAW—William McCraw is in Rome, Italy, on a Fulbright fellowship and doing research on his dissertation for his doctorate in political science.

NIVEN—William A. Niven, MS '59, has joined the staff of the electronics engineering department of the University of California Lawrence Radiation Laboratory at Livermore. He lives in San Mateo.

Marriages

WISNOM, Janet—See Smith-Wisnom, Class of 1959.

Births

BROWN—To Mr. and Mrs. Morton E. Brown, '57 (Ann Sussex, '57), a son, Paul Houston, April 6 in Bakersfield. He joins a brother, Mark Edward, 2. They live in Shafter where the father is an accountant with Brown & Bryant, Inc.

CASAROLI—To Mr. and Mrs. Phillip Casaroli, '57 (Joyce Penn, '55), a daughter, Nancy Sue, July 24. She joins Sally Ann, 2½. The father is teaching and coaching at Awalt High School, Los Altos-Mountain View District.

GEYER—To Mr. and Mrs. William H. Geyer, '57 (Patricia Kunze, '58), a daughter, Cathryn Carter, Aug. 12 in Sacramento.

MARCH—To Mr. and Mrs. Hugh N. March, '57, MBA '60 (Carol Hodge, '57, MBA '60), a son, George Nelson, June 25. He joins Karen, 3. They live in Palo Alto. The father is a financial analyst.

STOVER—To Mr. and Mrs. Robert F. Stover, '57 (Sue Dittmer, '57), a daughter, Karin Lynn, June 26 in St. Paul, Minn. She joins a brother, Don, 2½. The father is a mathematician-engineer at the Aero Division at Minneapolis-Honeywell.

1958

FILSETH—Stephen V. Filseth received his PhD in physical chemistry from the University of Wisconsin a year ago and has joined the faculty of Harvey Mudd College, Claremont. He has two sons, Eric, 2, and Paul, 1. Mrs. Filseth is the former Marjorie Haruff, '58.

HILLIER—Frederick S. Hillier, MS '59, PhD '61, was appointed assistant professor of industrial engineering at Stanford in 1961 and is spending the current academic year as visiting assistant professor of industrial engineering administration at Cornell University, Ithaca, N.Y. He plans to return to Stanford in the fall. He and his wife, the former Ann Lester, '58, MS '59, have a son, David Alfred, 1½.

Marriages

MILLER-VESTAL—Carolyn Miller to Paul Vestal Jr., Dec. 15 in San Francisco. They will live in San Francisco.

Births

ARJO—To Mr. and Mrs. Richard G. Arjo, '58, a son, Anthony Emmet, May 4. The father is assistant planner with the city of Mountain View.

HOLLISTER—To Mr. and Mrs. John J. Hollister III, '58 (Virginia Castagnola, '55), a daughter, Catherine Blackwood, Oct. 24 in Santa Barbara. She joins two brothers, James Scott, 3½, and George Cameron, 2.

SANFORD—To Mr. and Mrs. William Clarke Sanford Jr., '58, a son, James, Nov. 26. He joins Richard, 2.

1959

BLAZZARD—Lt. Norse N. Blazzard recently completed the officer orientation course at the Transportation Center, Fort Eustis, Va.

BOIVIN—Lt. Robert D. Boivin recently completed the officer orientation course at the Adjutant General's School, Fort Benjamin Harrison, Ind. He received his law degree from the University of Oregon.

RANDERSON—Susan Fletcher Randerson and her husband, Roelif, are living in San Diego where he is an attorney and she is teaching Spanish and German at Horace Mann Junior High School. She spent the year 1959–60 in Germany on a Fulbright grant and completed requirements for her teaching credentials at San Diego State.

ROLLS—Lt. John M. (Jack) Rolls Jr., LLB '62, has been assigned to the department of social sciences at the U.S. Military Academy, West Point, where he is assistant director of debate and instructor in U.S. government and economics of national security.

Marriages

CHURCH-COLMAN—Barbara Howell Church to Lt. (jg) Thomas Wheeler Colman, Nov. 24 in Washington, D.C.

DAQUE-ZERBE—Lt. Paul B. Daque to Margot Zerbe, Nov. 24 at Fort Bragg, N.C.

HAYES-SKELLY—Terrence Kevin Hayes, MBA '61, to Suzanne Marie Skelly, recently in San Francisco. They will live in Palo Alto.

SMITH-WISNOM—Roger L. Smith to Janet Wisnom, '57. They will live in San Jose.

TALBERT-DEFFENBAUGH—Larry K. Talbert to Joanne L. Deffenbaugh, June 30 in Portland, Ore.

UKROPINA-SOSO—Jo-an Ukropina to Robert Soso, July 7 in Portola Valley. They will live in Yuba City. The groom is with United California Bank in Marysville.

WHEATON-PEDERSEN — Kevin Ross Wheaton to Jeri Pedersen, '62, Sept. 29 in the Stanford Memorial Church. The bride is working toward a master's in Education and the groom continuing work for his medical degree at Stanford.

Births

WARD—To Lt. and Mrs. Joseph Gerard Ward II (Carolyne Faye Lowit, '59), a daughter, Kathleen Ann, May 20 at Fort Sill, Okla. The family is now living in Treysa, Germany, where the father is with the 7th U.S. Army Missile Detachment.

1960

BEAVIN—George R. I. Beavin, LLB '62, recently completed basic infantry training at Ford Ord, Calif.

FOLSOM—Roger Nils Folsom, who is continuing his studies at Claremont Graduate School, recently completed a study for the Nebraska state legislative council as a tax economist. His area of responsibility was the design of a state income tax, sales tax, or combination for possible replacement of the state property tax. He and his associates recommended state adoption of a flat, non-graduated rate income tax and this proposal was presented to the Legislature in November. He earlier spent a year teaching economics to high school seniors in an experimental program at Fullerton, Calif.

GROVES—Michael F. Groves has joined the Department of Interior, Bureau of Reclamation, as an electrical engineer at Tracy, Calif.

HARRELL—Lt. Robert L. Harrell has been assigned to Myrtle Air Force Base, S.C., after graduation from the Air Force training course for F-100 Super Sabre pilots at Luke Air Force Base, Ariz.

HUSLID—Kjell Huslid recently was promoted to captain in the Royal Air Force of Norway while serving at Oslo. He is married to the former Marianne Thalmann, daughter of Prof. and Mrs. Hans E. Thalmann.

LeSOURD—Peter LeSourd entered Harvard Law School this fall after serving two years in the Office of Naval Intelligence in Washington, D.C.

MACFARLANE—Lewis R. Macfarlane has been appointed a career Foreign Service Officer.

SAVAGE—Tom E. Savage has been assigned as a high school science and mathematics teacher at Alor Gajah, Malaya, by the Peace Corps.

Marriages

IKOLA-BRANDT—Lt. Theodore Emil Ikola to Kay Laurine Brandt, Sept. 30 in Santa Monica. They will live in Beverly Hills.

NEWMAN-VIX—Donald R. Newman to Jerene Mary Vix, '62, Aug. 26. They are living in Menlo Park. The groom is a fourth year student at Stanford Medical School.

YARAN-BUENZ—Ruby Bell Yaran to John Frederick Buenz Jr., Dec. 15 in San Francisco.

Births

MITCHELL—To Mr. and Mrs. Bruce W. Mitchell, '60 (Carol McKanna, '60), a son, Sean McKanna, Oct. 21 in Chicago. The father is a promotion copywriter for the *Chicago Tribune.*

NEEL—To Mr. and Mrs. William H. Neel, '60, a son, Stephen William, Sept. 11 in Eugene, Ore. He joins a sister, Sandra. The father is studying in the Graduate School of Architecture at the University of Oregon.

NUNES—To Mr. and Mrs. Marvin L. Nunes (Vivian Hall, '60), a son, Daryl John, Dec. 23, 1961. The father operates a dairy ranch on Point Reyes, Marin County.

1961

BOEBERT—William Earl Boebert has been commissioned a second lieutenant in the Air Force and is assigned to statistical services at Randolph Air Force Base, Tex.

FOSTER—Lt. Stephen F. Foster recently completed the field artillery officer orientation course at the Artillery and Missile Center, Fort Sill, Okla.

PERRY—Lt. Thomas E. Perry recently completed the officer orientation course at the Armor Center, Fort Knox, Ky.

VOAKE—Richard C. Voake was an honor graduate of the Air Force technical training course for warehousing specialists at Amarillo Air Force Base, Tex. He has been assigned to Van Nuys Air National Guard Base in California.

Marriages

CARNEY-HOWARD—Ensign Vance Eaton Carney to Virginia (Jeannie) Howard, '65, Nov. 7 in Las Vegas, Nev. They will live in Athens, Ga., where the groom is stationed.

EARL-VANCE—Wayne L. Earl to Judith L. Vance, '62. They will live in Menlo Park.

ERLIN-WALLACE—Michael William Erlin and Emily (Cressey) Wallace, both Class of 1961, were married Nov. 17 in San Francisco. They will live in Sausalito.

HALEY-SEAGRAVE—Percy Edward Haley III and Elaine Cole Seagrave, both Class of 1961, were married recently in San Carlos. They will live at Fort Benning, Ga., where the groom is stationed with the Army.

HANNA, Medill—See Williams-Hanna, Class of 1962.

LANCE NAGAYAMA
See Class of 1962

SHERRY WELCH LOOFBOURROW
See Class of 1962

KENNEDY, Judith W.—See Hedenberg-Kennedy, Business.

KILPATRICK-FRIEDRICHSEN — Jeremy Kilpatrick, MS '62, to Carlene Friedrichsen, AM '62, recently in Santa Rosa. They will live in Los Altos while the groom continues his studies at Stanford.

LANDES-WILKERSON—Ensign Richard Loyd Landes to Mary Lou Wilkerson, Aug. 4 in Glynco, Ga. They are living in Oakland while the groom is on active duty on a ship based at Treasure Island.

MANSFIELD-REINHARDT—Kathleen Sue Mansfield to James Norris Reinhardt, recently in Seattle, Wash.

PRYOR-GREER—Lawrence A. Pryor and Gabrielle Greer, both Class of 1961, were married June 9 at Great Lakes, Ill. They are living in Berkeley.

STERLING-MERRILL — William Wallace Sterling and Mary Olive (Molly) Merrill, both Class of 1961, were married Nov. 10 in Sausalito. They will live in Lausanne, Switzerland. The groom is the son of President and Mrs. J. E. Wallace Sterling. The bride is the daughter of Charles H. Merrill Jr., '34.

WALKER-ABSHIRE — Edward Wilfrid Walker Jr. to Tisa Abshire, '63, recently in St. Louis, Mo. They will live in Palo Alto.

Births

WINANS—To Mr. and Mrs. Henry G. Winans Jr., '61 (Marcia Hammond, '62), a son, Paul Michael, Aug. 24 in Palo Alto. The father is attending the Stanford Business School.

1962

HERMANN — Ross Victor Hermann has joined the staff of the Downieville, Calif., *Mountain Messenger.* He spent the summer at a journalism workshop in Washington, D.C.

LOOFBOURROW—Sherry Welch Loofbourrow has joined Harris and Associates, Peninsula public relations firm. She will serve as an assistant to Dick Harris, owner of the firm which has offices in Burlingame.

SAMUEL N. DONALDSON
See Business

NAGAYAMA—Lance S. Nagayama has been commissioned a second lieutenant in the Air Force after graduating from officer training school at Lackland Air Force Base, Tex.

STRONG—Lt. Edward C. Strong recently completed the officer orientation course at the Infantry School, Fort Benning, Ga., graduating second in his class of more than 200. He has been assigned to the Counter Intelligence Corps at Fort Holabird, Md.

Marriages

CONN-LOKERSON – Judith W. Conn to Donald C. Lokerson, Aug. 25, in Washington, D.C. They will live in Riverdale, Md. The groom is an electronics engineer for NASA at Goddard Space Flight Center.

JOHNSON-KRUG – Raymond Hal Johnson and Martha Elizabeth Krug, both Class of 1962, were married June 28 in Orange, Calif. They will live in Long Beach where the groom is stationed as an ensign in the Navy. The bride is continuing studies at Long Beach State College.

NORTON, Kathleen Ann—See Muir-Norton, Class of 1963.

PEDERSEN, Jeri—See Wheaton-Pedersen, Class of 1959.

PIERSON-HANSEN—Donald Nye (Swede) Pierson to Charlene Jean Hansen, '64, Nov. 3 in the Stanford Memorial Church. They will live at Stanford.

VANCE, Judith L.—See Earl-Vance, Class of 1961.

VIX, Jerene Mary—See Newman-Vix, Class of 1960.

WILLIAMS-HANNA—Lt. Russell D. Williams Jr. to Medill Hanna, '61, Aug. 31 at Quantico, Va. They are living in Stafford, Va., while the groom attends Marine Corps Basic School.

1963

Marriages

ABSHIRE, Tisa—See Walker-Abshire, Class of 1961.

MUIR-NORTON—Michael B. Muir to Kathleen Ann Morton, '62, Nov. 23 in Tacoma, Wash. They will live in Atherton while the groom continues his studies.

1964

Marriages

HANSEN, Charlene Jean—See Pierson-Hansen, Class of 1962.

NAUGHTON-LATTIN—John Thomas Naughton to Julie Rae Lattin, Sept. 15 in Palo Alto. They will live in San Francisco where both are with Southern Pacific Co.

1965

Marriages

HOWARD, Virginia (Jeannie)—See Carney-Howard, Class of 1961.

Business

BAILEY—Leo C. Bailey, MBA '50, has joined Auerbach, Pollak & Richardson, members of the New York Stock Exchange, in the institutional research department. He earlier had been head of the applied sciences and defense industry group at Investors Diversified Services.

DONALDSON—Samuel N. Donaldson, MBA '59, has moved to San Diego as a registered representative for Blyth & Co., Inc. He earlier had been district sales manager for Western Gear Corp., Denver, Colo.

SCHMIDT—Klaus D. Schmidt, MBA '53, has been appointed vice-president and general manager of Kimball Manufacturing Corp., San Rafael. He joined the firm a year ago as marketing manager. The company makes water skis, decorative ware, outdoor advertising panel trim, custom fabrication, and office space dividers.

SIMMONS—Col. Howard H. Simmons, MBA '51, has been assigned to duty in Saigon, Viet Nam.

SMITH – Harold P. Smith, MBA '60, has been promoted to assistant cashier of the Santa Monica Bay Cities regional head office of Union Bank. He joined the company as a management trainee in 1960.

SPIVEY—C. Thomas Spivey, MBA '37, has been named director of personnel services for the Tennessee Coal and Iron Division of the U.S. Steel Corp. in Fairfield, Ala. He had been director of industrial relations for the firm's Columbia-Geneva Division since 1948. He will move from the San Francisco area to Birmingham.

KLAUS SCHMIDT
See Business

TOUGH—Robert D. Tough, MBA '52, has been appointed internal auditor of the Theo Hamm Brewing Co. With Hamm's since 1959, he has been assistant controller and later controller of the Western Division. Earlier he was a staff auditor with the firm of Touche, Ross, Bailey, and Smart.

WHITE—Julian M. White Jr., MBA '40, former manager of the Chelatchie, Wash., branch of International Paper Co., has been named manager of the firm's Weed, Calif., branch. He has been with the Long-Bell division of the company for more than 20 years.

WHITING—R. J. (Dick) Whiting, MBA '48, received his doctorate from the University of Southern California in August. He is an assistant professor in the School of Business at Los Angeles State College.

Marriages

BRIZZOLARA-JOHNSON—Louis M. Brizzolara Jr., MBA '51, to Margaret Babcock Johnson, recently in Seattle, Wash. They will live in Seattle.

HEDENBERG-KENNEDY—Norman August Hedenberg Jr., MBA '61, to Judith W. Kennedy, '61, Oct. 13 in Glencoe, Ill. They will live in Palo Alto.

Education

CROSS—Dr. Neal M. Cross, EdD '43, has resigned his post as chairman of the division of humanities at Colorado State College after 17 years of service to return to teaching. He began his teaching career at Colorado State in 1940 and became division chairman, a post his father also held, in 1945.

BUFFINGTON—Reed L. Buffington, EdD '54, is superintendent of the South County Junior College District and president of Chabot College, San Leandro.

HENLEY—Marvin J. Henley, Gr. '35, has joined the headquarters staff of the Senior Citizens of America in Washington, D.C., as director of SCA Services. He earlier had been principal of Horace Mann Junior High School, Colorado Springs.

HIMSTREET – Dr. William C. Himstreet, AM '50, assistant dean of the School of Business at the University of Southern California, has been elected national president of Alpha Kappa Psi, professional business fraternity. He also recently received an Associates Award of $1000 for excellence in teaching.

JILLSON—Charles Paul Jillson, AM '51, has been named educational services director of the Rio School District, Camarillo. He earlier was a curriculum consultant with Laguna Salada School District, San Francisco.

KERMOIAN—Samuel B. Kermoian, AM '49, EdD '56, has been appointed chief of mission to a team of UNESCO experts working in São Paulo, Brazil. They are conducting a seminar at the research center of the University of São Paulo in the training of educational research personnel. He and his family expect to travel through Latin America at the conclusion of the seminar in December, returning to San Francisco in January.

LALLAS—John E. Lallas, EdD '56, has been appointed director of planning and institutional research at the University of Oregon.

an associate professor of education, he has been on the faculty since 1957. In his new position he will be responsible for conducting research programs to improve the effectiveness of administration and instruction at the university.

SMITH—Helen Hebel Smith, AM '42, retired a year ago after 15 years as principal of McKinley School in Santa Barbara.

SMITH—Dr. Robert R. Smith, AM '47, EdD '51, chairman of the Division of Education at San Francisco State College, has been named an acting dean of instruction at the school. A member of the faculty since 1949, he has been a key figure in the San Francisco State College-State Department educational program for the organization of the school system in Liberia.

SPENCER—Kenmour M. Spencer, AM '54, has joined the staff of the Tuolumne County schools as an elementary education consultant. He earlier was principal of the Norris School in Centerville.

STROWIG—Ronald Wray Strowig, EdD '52, has joined the faculty of the University of Wisconsin as an associate professor of education. He is a specialist in guidance and counseling and earlier taught at the University of Chicago.

WHITAKER—Lt. Col. Thompson S. Whitaker Jr., AM '55, has been named an outstanding graduate of the U.S. Air Force course for academic instructors at Maxwell Air Force Base, Ala. He has been assigned to the University of Cincinnati as professor of air science.

ZEITLIN—Herbert Zeitlin, EdD '56, former principal of Antelope Valley High School, Lancaster, has been named dean of instruction at Southwestern College, Chula Vista.

Marriages

FRIEDRICHSEN, Carlene—See Kilpatrick-Friedrichsen, Class of 1961.

Engineering

NAVIS—Herbert A. Navis, MS '47, has been elected vice-president and director of Standard Oil Co. (Kentucky), a subsidiary of Standard Oil Co. of California. He was assigned to the Kentucky company in Louisville a year ago as manager of the supply department.

RAMIREZ—John R. Ramirez, Engr. '41, has been named construction research engineer at the Southern California Laboratories of the Stanford Research Institute. He earlier had been a consulting engineer in private practice and in association with Petrey & Knowles, Alhambra. Earlier he was with Union Oil Co.

TALLMADGE—Gene E. Tallmadge, MS '55, has been appointed assistant chief engineer of Radiation at Stanford. He has been with the firm since 1955.

VAN BIENE—Frederic K. van Biene, MS '55, has been named "alumnus of the year" by California Polytechnic College. He is vice-president of United Electro-Dynamics, Inc., and manager of United Testing Laboratories of Monterey Park. He was honored at the Cal Poly Homecoming in October.

VENOLIA—Kenneth Venolia, Engr. '51, is serving as a director of the Structural Engineers Association of California and chairman of their seismology committee. He has recently opened his own structural engineering office in Sacramento.

Humanities-Sciences

BROCKETT — Oscar G. Brockett, AM '49, PhD '53, associate professor of dramatic art at the State University of Iowa, will be a visiting professor of speech and theatre at the University of Illinois for the second semester of the current academic year.

CARTER—Roy E. Carter Jr., PhD '54, has a Fulbright grant to serve as professor of sociology at the University of Chile. He is on leave from his post as professor of sociology and journalism at the University of Minnesota.

CHILDS—Robert Barney Childs, Gr. '53–54, is editor of a new literary quarterly, *Genesis West*, which is being published by the Chrysalis West Foundation, Burlingame. The first issue, which came out in September, featured poet Jack Gilbert.

CRANSTON—Frederick P. Cranston, MS '50, formerly on the staff of the Los Alamos Scientific Laboratory of the University of California, has joined the faculty of Humboldt State College as associate professor of physics.

CROSS—Bert C. Cross, Gr. '48–49, has been named chairman of journalism at the University of Idaho. A native of Spokane, he is a graduate of the University of Washington and has served as a reporter on the *Spokane Daily Chronicle* and the *Spokane Review*.

GRAY—Dr. John W. Gray, PhD '57, former member of the mathematics faculty at Columbia University, has been named assistant professor of mathematics at the University of Illinois.

HOOD — Leslie Hood, AM '51, has been named to the board of trustees of the Mill Valley library. He is public relations director for the Bay Area Council and does free lance publicity work.

HULTEN—Charles M. Hulten, Gr. '39, has received a Fulbright grant to lecture at the University of Istanbul for the current academic year. He is a member of the faculty of the University of California at Berkeley.

KNOLL—Dr. Samson B. Knoll, PhD '53, has been appointed director of the division of political arts at the Monterey Institute of Foreign Studies. He spent July in Germany at the invitation of the German Federal Republic. He has taught at Menlo College and the University of California as well as at Stanford.

GENE E. TALLMADGE
See Engineering

ROBERT C. ERICKSON
See Law

LOCKEY—Savannah Cross Lockey, Gr. '31–32, is beginning her second year as chairman of the curriculum committee of the Board of Regents, State Teachers College, Texas. The group is working especially on a formula for controlling curriculum changes in the small liberal arts college. She lives in Troup, Tex.

NISSEN—Robert Nissen, AM '51, has been commissioned to do a sculpture for the Santa Clara County welfare building in the San Jose Civic Center. The group will represent society; six people of varying ages and attitudes moving forward along a path. He is an art teacher at Daly City High School.

REHMUS — Charles M. Rehmus, AM '50, PhD '55, has been named associate professor of political science at the University of Michigan and director of the Institute of Labor and Industrial Relations, a joint project with Wayne University, Detroit.

ROJAS — Eustace Rojas, AM '47, has been named head of the Orange Coast College Faculty Association. On the faculty since 1949, he teaches music and Spanish.

Law

COHEN—Milton S. Cohen, Gr. '50, has been named superintendent of the Larkspur School District in Marin County. He had been assistant superintendent of the Cupertino Union Elementary School District.

ERICKSON—Robert C. Erickson, LLB '52, a member of the Aluminum Company of America's legal staff since 1956, has been named manager of urban development for the firm. He will direct the company's interests in 11 major redevelopment projects in seven U.S. cities. He also became a director and secretary-treasurer of Alcoa Urban Development Corp.

Marriages

GIACOMINI-KERNS—John Anthony Giacomini, LLB '56, to Sydney Lynne Kerns, Oct. 27 in Merrill, Ore. They will live in Klamath Falls.

In Memoriam

Faculty–Staff

CHAPIN—Leland Taylor Chapin, Gr. '29–34, professor of speech and drama, died Oct. 23 in Palo Alto of a heart attack. He was 59. A

member of the faculty since 1929, he coached the debate teams from 1932 to 1948. He initiated the graduate program in public address and was past president of the Pacific Forensic League. A native of Portland, Ore., he was a graduate of Willamette University. He was a speech teacher at Lingnan University in Canton, China, before coming to Stanford. He had received his master's in political science from the University of Oregon; a master's in international relations from Columbia; and a doctorate from the University of Edinburgh. Survivors include his widow and a son, Norman, '63. The family suggested memorials for the purchase of books in the fields of great art and 17th Century Scottish biography.

DAVIS—William Hawley Davis, professor of English, emeritus, and retired editor of the Stanford Press, died Dec. 5 in Palo Alto after a brief illness. He was 82. Professor Davis was named editor of the Press in 1925, when it was first organized as a university department and became an active publishing institution. He retired 20 years later, having seen 600 titles published during his tenure. He was the author of *English Essayists: A Reader's Handbook* and had collected and catalogued more than 3,000 current figures of speech, giving the figurative meaning, origin, and literal meaning. Professor Davis came to Stanford in 1924 as editor for the Food Research Institute. He earlier taught English and public speaking at Bowdoin College. He was a native of Pennsylvania and studied at Harvard and Columbia. Active in numerous civic groups, he had been director and treasurer of the Palo Alto Junior Museum and president of the Stanford Faculty Club. Survivors include his widow; a brother, Joseph S. Davis, director emeritus of the Food Research Institute; a son; and a daughter.

HANSEN—Hazel Dorothy Hansen, '20, AM '21, PhD '26, professor of classics, died Dec. 19 in Palo Alto of heart trouble following an operation. She was 63. A member of the faculty since 1928, she had been a full professor since 1940. She was one of the nation's most respected authorities on Greece and had been made an honorary citizen of that country. She spent virtually every summer on the Island of Skyros, in the Aegean Sea, where she conducted archeological research. She began her Grecian studies in 1927 when she received a research scholarship from the American Association of University Women for study in Thessaly and Macedonia. On campus she had a "home grown" archeological project in the basement of the Stanford Museum—where she and students helped put together the thousands of fragments of the Cesnola collection of ancient Greek artifacts shattered in the 1906 earthquake. She was a trustee of the American Friends of Greece, a member of the executive committee of the American School of Classical Studies, and a member of numerous professional groups. Survivors include a brother and two sisters, Edna Marie Hansen, '08, AM '09, and Mable Hansen Taylor, '21.

SHAFER—Dr. George Daniel Shafer, AM '06, professor of physiology, emeritus, died Dec. 16 in Los Altos. He was 87. A member of the Stanford faculty from 1918 until his retirement in 1940, he came from Michigan State University where he had been engaged in research. He received his doctorate from Cornell. Dr. Shafer was well known for his interest in and studies of the mating habits of bees. He had published a number of papers on his research with insect life and one book, *The Ways of a Mud Dauber*, which dealt with his studies of wasps. He was a native of Indiana. Survivors include his widow, a brother, and two sisters.

1892

RICHARDS—Virgil Chesley Richards, the last surviving member of the Class of 1892, died Dec. 7 in Berkeley. He was 94. A native of Maine, he moved to California when he was one. After completing his studies at Stanford he worked as a reporter in San Jose for a year. He then bought the *Chico Record* and was co-publisher of that paper until 1937. Survivors include a brother, Dexter N. Richards Sr., '07; a nephew, Dexter N. Richards Jr., '39; and two nieces.

1898

HORST—Dr. Carl Herman Horst died March 11. Survivors include a daughter.

LEAN—Louese Gerichs Lean died Oct. 11 in San Jose after a long illness. She was 87. A native of San Jose, she had lived in Santa Clara County most of her life. At Stanford she was a charter member of Upsilon chapter of Delta Gamma sorority. Survivors include a son, Richard Gerichs Lean, '30, LLB '33.

1899

SCUDDER—Carrie Maude Dilatush Scudder died Sept. 10 after several years of failing health. Survivors include a son, Joseph B. Scudder, '27.

1900

FETZER—Martha Elizabeth Madden Fetzer died Nov. 5. Survivors include a daughter.

THEOBALD—Harry Couch Theobald died March 16. Survivors include a daughter.

WESTALL—Marion Merrick Westall died Dec. 9 in Palo Alto following a heart attack. He was 95. A native of Scales, Calif., he had moved to Palo Alto in 1891. He had been a gold and copper miner in Alaska and California and had returned to Palo Alto in 1930. Survivors include his widow, a son, a daughter, and four sisters, including Edith Westall Gordon, '07.

1901

PARKIN—William Metcalf Parkin died Aug. 10 in Baltimore, Md., after a year's illness. At Stanford he was a member of Sigma Alpha Epsilon.

1902

ELKUS—Charles de Young Elkus Sr. died Jan. 2 in San Francisco. He was 81. Long a San Francisco attorney, he specialized in business and corporation work. He was active in many philanthropies and was particularly interested in the plight of the American Indian. He helped establish the Indian Defense Association and was an original member of the Federal Commission on Indian Arts and Crafts. He also was first president of the California League for American Indians. He headed the State Study Commission on Juvenile Justice and was a member of the executive committee of the San Francisco Community Chest for a number of years. He was secretary of the Commonwealth Club in 1936 and had served as president of the San Francisco Public Welfare Commission. Elkus was a native of Sacramento. He received his law degree from Harvard after completing his Stanford studies. Survivors include his widow; three sons, including Charles Jr., '29, and Robert Carleton, '38, LLB '47; and a daughter, Ruth Elkus Prosser, '31.

REPPY—Agnes Lawton Arneill Reppy died in November of 1961. She was the mother of William A. Reppy, '34, and Joan Reppy, '33. Her husband was the late Roy V. Reppy, '02.

1903

GIBNER—Charlotte Elizabeth Bruce Gibner died Dec. 1 in San Francisco. She was 82. She had lived in California since the death of her husband in 1948. Survivors include a daughter, Charlotte Gibner Train, '35, and two grandchildren, including Lt. Bruce Train, '62.

1904

BAUM—Mary Elizabeth Dawson Baum died in June. Survivors include three daughters.

BURTON—Clifford Eugene Burton died Nov. 25.

DAWSON—Ralph Dawson died July 29.

HARKINS—Edward Castelar Harkins died Nov. 4 in Menlo Park after a month's illness. He was 79. A native of Benicia, he moved to Menlo Park with his family as a youngster. He became a mining engineer after leaving Stanford, working in Nevada, New Mexico, and California. He later was a building contractor and in 1928 became associated with the Internal Revenue Service in San Francisco. He retired in 1953. Survivors include his widow; a son, Edward Jr., '43, MBA '48; two brothers; and two sisters.

LYMAN—Edward Dean Lyman died Nov. 11 in Los Angeles. He was 81. He was a partner in the Southern California law firm of Overton, Lyman & Prince, whose predecessor firm he helped establish in 1912. An ardent library patron, he had served as president of the Honnold Library Society, whose aim is the improvement of the library of the Associated Colleges at Claremont. He had been awarded an honorary doctor of laws degree from Claremont Graduate School in 1957. He was president of the Los Angeles Bar Association in 1936 and had numerous civic and fraternal affiliations. He joined Stanford Associates in 1936 and became an emeritus member in 1960. As an undergraduate he joined Sigma Alpha Epsilon fraternity. He was a native of Nevada. His first wife, the

former Eva Marian Wheeler, '02, died in 1955. His widow, Gladys Lorigan Lyman, survives.

1905

CARTER—William Douglas Carter died May 2.

FRIENDLY—Carrie Sappington Friendly died Oct. 14 in Salt Lake City. She was 79. Prominent in social and civic organizations in Salt Lake City, she was president and chairman of the board of Sarah Daft Home at the time of her death. She had been active in Red Cross and Girl Scout work. She taught in Salt Lake City prior to her marriage. Her husband, Oscar N. Friendly, is a retired general manager of Park Utah Consolidated Mines Co. Among other survivors is a nephew, Richard Harrison, '47.

PECKHAM—Gertrude Catherine Peckham died Jan. 18, 1962. Survivors include a brother, Arthur B. Peckham, '12, Engr. '14.

1906

COOPER—Anna Jane Cooper died Oct. 19 in San Carlos.

MILLS—Charlotte Edna Mills died in November.

SANGER—Walter Max Sanger died in October. He was a civil engineer and had long lived in Hillsborough. Survivors include a daughter, Katherine Sanger Dalgero, '41.

SINGLETARY—George Curtis Singletary died Nov. 4, 1961, after a long illness. Survivors include his widow.

1908

CARTER—Royle A. Carter died Oct. 4. An attorney, he practiced in San Francisco and was with the California State Compensation Fund prior to his retirement in 1952. He then established a law practice in Woodlake, Tulare County, and in 1954 was named a judge of the Woodlake Judicial District. He had returned to San Francisco prior to his death.

HARTZELL—Philip Nicola Hartzell died Dec. 11. He was 78. A native of Pennsylvania, he came to California in 1902. He had been a civil engineer in California and the Pacific Northwest. Survivors include his widow.

RANSOM—Frederic Garfield Ransom died Nov. 6. Survivors include his widow.

1909

BAKER—Thomas Childrey Baker died Oct. 29 in Pasadena. He was 76. A retired mining engineer, he had worked in many areas, including Mexico and Australia. He was a native of Tennessee. Survivors include his widow; two sons; a daughter, Elizabeth Baker Lee, '40; and a stepdaughter.

OTTO—Lucile Elizabeth Otto died in November of 1961.

PRATT—James Hamilton Pratt died Oct. 27.

SCHWENNESEN—Alvin Theodore Schwennesen, Engr. '11, died Sept. 10 in Los Angeles. He was 79. A geologist, he was with Shell Oil Co. for many years, serving in Los Angeles and in Texas. He retired in 1949. Survivors include his widow and two daughters.

1911

CARDEN—Lester Lincoln Carden died Sept. 15. Survivors include his widow and two sons, Lester L. Jr., '41, and William F., Gr. '46.

NEWMAN—Carl Emory Newman died Sept. 11 in San Francisco. He was vice-president of Central Valley National Bank and earlier had been with Bank of America. At Stanford his fraternity was Theta Delta Chi. Survivors include his widow and a sister.

SEARS—Dr. Harry Johnson Sears, AM '12, PhD '16, died Oct. 27 in Pineville, N.C. He was 77. He was professor emeritus and first chairman of the department of bacteriology at the University of Oregon School of Medicine. He retired in 1956 after heading the department for 38 years. He served as an instructor at Stanford while working for his doctorate and spent some two years with the Berkeley Health Laboratory before going to Portland. He was a pioneer in bacteriology research and the author of more than 30 published papers. He was active in many professional groups. Survivors include two sons, two daughters, a sister, and three brothers, including Dr. Jesse B. Sears, '09, professor of education, emeritus.

WILLIAMSON—William Roy Williamson died Sept. 15. He received his law degree from the University of Southern California and had long practiced in Los Angeles. He was a member of Kappa Alpha fraternity.

1914

ANDERSON—Naoma Check Anderson died Nov. 22. Survivors include her husband.

POWELL—Charles Smith Powell died Sept. 22.

1915

DAVIS—Julian Ralph Davis died Dec. 30 in Honolulu as the result of injuries incurred in a fall. He had retired in 1959 after 44 years in banking, 38 of which were with the Bank of America. At the time of his retirement he was a vice-president at the head office in San Francisco in charge of commercial loans in Northern California. He had been a member of Stanford Associates and was active in Class affairs. As an undergraduate he joined Theta Delta Chi. Survivors include his widow.

PAUL—William Glae Paul, LLB '17, died Oct. 5 in Pasadena. He was 68. He entered the securities business in Southern California following military service during World War I and was a former president of the Los Angeles Stock Exchange. He became a member of the Exchange in 1925, executive secretary in 1933, and president in 1946. When the San Francisco and Los Angeles Exchanges merged in 1957 he was named president of the Los Angeles division. He retired in 1960. He was active in civic and fraternal groups. Survivors include his widow; three sons, including William G. Paul Jr., '44, MBA '48, and Donald Crary Pearson, '50; and a daughter, Barbara Pearson Sargeant, '52.

SMITH—Fred Clarence Smith died Aug. 24. He had been a division engineer with the Nebraska State Highway Department.

1916

CARBEE—Florence Dean Stewart Carbee died Nov. 26.

McCLURE—William Archibald McClure died March 23. Survivors include his widow.

NIEBEL—Helen Lucile Denhart Niebel died Nov. 9 in Palo Alto. She was 70. A native of Minnesota, she had lived in Palo Alto for 45 years. At Stanford she was a member of Chi Omega sorority and Cap and Gown Society. She was a charter member of the Palo Alto Hospital Auxiliary and active in the Red Cross. Survivors include her husband, Dr. Herbert Lee Niebel, '14, MD '23; three sons, including James, '43, and Robert, '47; a daughter, Ruth Niebel Thompson, '46; two sisters; and a brother.

NIX—Armin William Nix died July 28 of a heart attack.

1917

CROMBIE—Jessie Belle Wood Crombie died Sept. 22 in Modesto. She was 71. She and her husband at one time operated a nursery and had developed the Crombie rose. A native of Modesto, she had long been active in civic groups in Stanislaus County. Survivors include her husband, an aunt, and an uncle.

FLOOD—Thomas Bernard Flood died Nov. 8 in Mountain View of a heart attack. He was 69. With the California Company, a Standard Oil of California subsidiary, for 37 years, he retired in 1956. Much of his time with the company was in New Orleans. He was a vice-president when he retired. During World War I he served as a Navy aviator. He was a native of Colorado. Survivors include his widow and a son, Donald, MS '61.

HOWARD—Graeme Keith Howard died Dec. 6 in Hartford, Conn., after a long illness. He was 66. He was a retired vice-president of Ford Motor Co. and earlier had been associated with General Motors Export Co. His father, the late Burt Estes Howard, was a political science professor at Stanford from 1900 to 1902 and from 1908 to 1913. Survivors include his widow, the former Margaret Evans, '17; two sons; and a daughter.

NEWCASTLE—Dr. Charles Cornelius Newcastle Jr. died Aug. 5 in Brussels, Belgium, of a heart attack while on a tour of Europe. A native of Portland, he had practiced in that city for 35 years prior to his retirement six years ago. He was for many years chief surgeon for SP and S Railroad and was a past member of the Oregon State Board of Medical Examiners. He and his wife had moved to Palm Desert, Calif., following his retirement. He also leaves two daughters.

1918

AURELL—Verner Christensen Aurell died June 9 of pneumonia. Survivors include his widow.

CROWE—Constance Chandler Crowe died Nov. 13 following a long illness. She was the wife of Earle E. Crowe, '21. She also leaves a daughter, Patricia Crowe Lee, '44; three brothers, Norman, '22, Harrison, '27, and Philip; three sisters, May Chandler Goodan, '14, Ruth Chandler Crocker, '19, and Helen Chandler Garland, '29; and a nephew, Otis Chandler, '51. Many members of the family are associated with the *Los Angeles Times*. Mrs. Goodan and Otis are Stanford Trustees.

1919

CHILDRESS – Henry Harrison Childress died Nov. 10 in Los Angeles. He was 66. A native of Chico, he moved to San Mateo as a youngster. He received his law degree from the University of San Francisco in 1923 and joined the San Francisco firm of Sullivan, Johnson, Barry and Roach. In 1932 he became counsel for the California Superintendent of Banks at Los Angeles and in 1939 joined Pacific Mutual Life Insurance Co. in Los Angeles. He was named general counsel of the firm in 1955. Following his retirement from Pacific Mutual in 1961 he joined the Los Angeles law firm of Adams, Duque and Hazeltine. He had been active in many professional organizations. Survivors include his widow, a daughter, and a son, Gary, '57.

MORRIS–Dr. John Knox Morris Jr., MD '24, died Sept. 16 in Modesto of a heart ailment. He was 65. An eye, ear, and throat specialist, he had practiced in Modesto since 1929. He served in the Army during World Wars I and II. Survivors include his widow and three children.

1920

HENRY – Merlin Leo Patrick Henry died Dec. 20 in San Francisco after a brief illness. He was 67. A San Francisco city employee for 35 years, he had been purchasing chief of the Municipal Railway prior to his retirement two years ago. He was a native of Montana, moving to San Francisco with his family in 1912. He was a past commander of American Legion Post No. 429 and a member of the Municipal Executives Association. Survivors include his widow and two sons.

1921

ANDERSON–David McCulloch Anderson died Oct. 16. A prominent geologist, he had discovered the Newport Beach field. He was associated with Union Oil Co. of California and the old Jergins Oil Co. Survivors include a son, David Bruce, '51.

KINNEY–Wendell Harcourt Kinney died Oct. 30 in Hong Kong of a heart attack. He was 64. Senior vice-president of Standard Steel Corp., he was on a business trip to New Delhi at the time of his death. A devoted alumnus, he had long been active in fund-raising activities in behalf of Stanford. He joined Stanford Associates in 1948 and was on the board of governors from 1956 to 1959; vice-president in 1958. During the past year he had been on the Central Los Angeles Special Gifts Committee. Utilizing his public relations background, he was the moving force behind Stanford's public relations efforts in Southern California. As an undergraduate he was cheerleader and originated the mass use of colored cards in the student rooting section. His fraternity was Zeta Psi. Returning to his native Los Angeles following graduation, he became associated with H. K. McCann Co., advertising, and rose to manager of the Los Angeles office. Upon the death of his father in 1927 he and his brother, Roland, '23, JD '25, took over operation of the Kinney Iron Works. They sold the company in 1945, but had a number of other common business interests through the years. In addition to his brother, he leaves his widow and two daughters, including Sally Kinney Wenzlau, '52.

1923

DEWEY–Thomas Etter Dewey died Nov. 28.

DOWNING–LaVerne Helen Dunker Downing, RN '23, died Nov. 13 in Burlingame. Survivors include a son, three sisters, and her nother.

1924

GRIFFIN–Frank Joseph Griffin died Nov. 25 in Redwood City from a heart disease. He was 67. A resident of Redwood City for 56 years, he long served on the faculty of Sequoia High School. Some 25 years ago he established a physical fitness system for developing muscles, a system of exercises still in use in the district and which drew nationwide attention. Survivors include a cousin.

TITUS–Robert Chadwick Titus, AM '29, died in November in Oroville after a short illness. Survivors include his widow and two daughters.

1926

ARMSTRONG – Harold Stevens Armstrong died March 4 of a heart ailment. Survivors include his widow.

CILLEY–Dr. Herbert Arthur Cilley, MD '30, died May 25.

SCHULZ–Carl Robert Schulz, JD '29, died Nov. 5. Survivors include his widow and three sons, including Jan Carl, '59, MS '60, Engr. '61, and Robert Eric, '61, MS '62.

1927

KINGSBURY–Ross Gladish Kingsbury died in December. He was 59. Survivors include his widow.

MILLER–Harold Eugene Miller died Feb. 22, 1962. Survivors include his widow.

NEWKIRK–Dana Sheldon Newkirk died Oct. 12 in Fullerton, Calif., of a heart attack. Since graduation from Stanford he had been an orange grower and shipper in Fullerton. Survivors include his widow and a son, Joel Harris Newkirk, '59.

SMITH–Clayton Harrison Smith died Nov. 10 in Mountain View. He was 64. Survivors include three sisters.

1928

GAFVERT–Agnes Naomi Gafvert died July 14.

1929

BLAKELY–George Opdycke Blakely died Sept. 17, 1961, in an airplane accident near Chicago, Ill. Survivors include his widow.

HAINES–Frederick S. Haines Jr. died Aug. 7. He was 55. Assistant vice-president of the First National Bank of Oregon at the time of his death, he had been manager of the instalment loan department at the Portland central office since 1958. Earlier he had been with the National Bank of Tacoma for 19 years. He was a native of San Francisco. Survivors include his widow, a son, and his father.

KIRKPATRICK – Leonard Henry Kirkpatrick, AM '35, was killed in an automobile accident Nov. 29 near Garfield, Utah. He was 54. At the University of Utah since 1941, he was librarian and professor of library science at the time of his death. Earlier he had been librarian at Utah State Agricultural College. He was a past president of the Utah Library Association. Survivors include his widow, four daughters, his mother, and two brothers.

1930

MORRISON – Catherine Delphine Morrison died Aug. 8 in El Paso, Tex. Survivors include a brother.

1931

INCH–Thomas Turner Inch died Oct. 29 in Los Angeles of a heart attack. He was 52. A vice-president of Kaiser Industries, he was known for his work as a labor relations specialist. He joined Kaiser in 1941 and had been an attorney for a number of the affiliated companies. He also was a vice-president of the Henry J. Kaiser Co. and a trustee of the Kaiser Foundation. He was elected vice-president of industrial relations for the parent firm in 1950. He was a member of Stanford Associates and had long been active in Stanford Fund work. Survivors include his widow and a son, Thomas Edgar, '61.

1937

BRYANT–Edgar Reeve Bryant died Aug. 15 in Slates Hot Springs, Calif. He was 46. A native of San Francisco, he had lived in Carmel for a number of years. For the past year and a half he had lived in Los Angeles and was an accountant at the Arroyo Inn, Pasadena. Survivors include his widow, a daughter, and his mother.

DUFFICY–Maj. Ellis Rafael Dufficy died Nov. 27 at Travis Air Force Base after a brief illness. He was 46. A World War II Marine veteran, he entered the Air Force during the Korean War and was attached to the Judge Advocate General's office at Klamath Falls Air Force Base prior to his illness. He was a member of a pioneer Marin County family and had served as chief trial deputy district attorney there from 1946 to 1950. Survivors include his widow; two sons, including Michael Buck, '60; a daughter; his mother; a brother, Rafael G. Jr., '41; and two sisters.

HUNTER–Robert Bruce Hunter died June 25 in Santa Barbara of a heart attack. He was 50. A native of Illinois, he had lived in Southern California since 1921. At the time of his death he was deputy county assessor of Santa Barbara County. Survivors include his widow, two daughters, his parents, and a sister.

1938

DEISENROTH–Carl Ellsworth Deisenroth died in October in Richmond, Calif., of a heart attack. He was 43. Survivors include a sister and an uncle.

1939

TODD–William Overton Todd Jr. died June 26 in Santa Monica of a heart condition. He was 45.

1946

PIGOTT–Paul Juneau Pigott died Oct. 14 from injuries suffered in an auto accident

racing in the Riverside Grand Prix. He was 37. A foreign car dealer in Bellingham, Wash., he was a noted sports car driver. Survivors include his widow and two young children; two brothers, Charles McGee, '56, and James Calvin, '59; three sisters, including Ann Pigott Wycoff, '48; and his mother, Theiline McGee Pigott McCone, '24. His father, Paul Pigott, '23, was a Stanford Trustee prior to his death in 1961.

1947

RALLS—John Wallace Ralls died Nov. 10 in Palo Alto. He was 46. A native of Georgia, he came to Stanford after Army service during World War II. He joined the patent department of General Electric Co. in New York, and in 1954 returned to Palo Alto to join the firm of Lippincott, Ralls, and Hendrickson. He was senior partner of the firm and president of the San Francisco Patent Law Association. He had a number of additional professional affiliations. Survivors include his widow, two sons, a daughter, and his parents.

1948

CHAMBERS—Ernest Leslie Chambers Jr., MD '52, died Nov. 7 in Berkeley. He was 37. Survivors include his parents, a brother, and a sister.

1949

JACOBS—Eastman Nathaniel (Bud) Jacobs, MS '50, was killed in a recent automobile accident near Newhall, Calif. He was 37. At the time of his death he was director of research and development for U.S. Flare Corp. and was working on some of the control components of the Mercury project. He lived in Granada Hills. Survivors include his widow, a son, his parents, and two sisters, including Phyllis Jacobs Stickney, '47.

LISCOMB—Dr. Robert Leroy Liscomb died Aug. 19 on Middleton Island near Cordova, Alaska. He was 37. A geologist, he had been with Shell Oil Co. for nine years. He was a resident of Seattle where he was active in fraternal and professional groups. Survivors include a daughter, his parents, and two sisters.

MADDEN—James Daniel Madden, AM '55, died in October. He was 39. He had been an administrative assistant in Research Coordination at Stanford. Survivors include his widow.

ROTH—Almon Walter (Wally) Roth was handcuffed and murdered Nov. 27 at his company office in Santa Clara. He was 38. He was president of the Bayshore Paper Co. at the time of his death and had been with the firm for 12 years. A native of Palo Alto, he was the son of Dr. Earl Fredrick (Fritz) Roth, '16, MD '20, a co-founder of the Palo Alto Clinic and former physician to the Stanford football team. He lived in Portola Valley with his wife, the former Patricia Scofield, '46, and four children. He also leaves an uncle, Almon E. Roth, '09, JD '12, former Stanford controller and Trustee; an aunt, Alice Roth DeGroot, '24; three brothers; and a sister.

1950

JONES—William Francis Jones, MS '51, died Feb. 12, 1962, of a heart attack. He was 41. Survivors include his widow.

1953

BOGLE—Dr. James McLaughlin Bogle, MD '56, died Feb. 26 in Long Beach after an illness of two years. He had served with the Air Force at Lojes Field in the Azores and had for the past year been active in hematology research at Los Angeles Children's Hospital. Survivors include his widow, his parents, and a brother.

1956

LILLARD—Jack Herbert Lillard, AM '57, AM '62, died Nov. 7 in San Francisco of a kidney ailment. He was 27. He had been mathematics and chemistry teacher at Palo Alto High School for the past five years and also served as coach of the tennis team. He was a native of Gilroy. In 1961 he was granted a year's leave of absence from the school district to study chemistry at Stanford under a grant from the National Science Foundation. Survivors include his widow, the former Elizabeth Lund, '57, AM '58; two daughters; his parents; a sister; and a brother.

1959

SUTRO—Stephen Sutro was killed in an airplane accident Nov. 25 aboard the carrier USS Enterprise. He was 24. A lieutenant (jg), he died when the Crusader jet he was piloting crashed into the Atlantic after being catapulted from the carrier. Survivors include his parents, Mr. and Mrs. John A. Sutro, '26; a brother, John A. Jr., '57; and two sisters, including Elizabeth Sutro Mackey, '55.

Business

HOLDER—Oscar Curtis Holder, Gr. '33, died in an airplane crash Aug. 1 in Nepal. A Foreign Service Officer, he was making an inspection trip in Nepal and India while assigned to the office of the inspector general, foreign assistance. Survivors include his widow and two children.

HOYT—Harrison Val Hoyt, PhD '31, died Jan. 20 in Provo, Utah. Survivors include his widow, Helen Grace Hoyt, Gr. '29.

REISS—Sydnor Vernon Reiss, MBA '34, died Aug. 31. Survivors include his widow, the former Miriam Lee Lewis, '29.

WARREN—Benjamin Franklin Warren, MBA '35, died in February.

Earth Sciences

GARIEPY—Glen Bernard Gariepy, Gr. '29, died Oct. 18 in Houston, Tex., of a heart attack. He was 58. With Marathon Oil Co. in Findlay, Ohio, for many years, he was to have become assistant division manager of the company's Houston production division in November. He was a native of Findlay. Survivors include his widow, a son, a daughter, and his mother.

ROFE—Rafael Rofe, MS '60, was killed in an airplane accident recently on the island of Guadalupe. He had been associated with the Creole Petroleum Corp. in Venezuela.

Education

ALLEN—Max Thayne Allen, Gr. '52, died April 3.

DAWSON—Rebecca Barker Dawson, Gr. '61, died Aug. 2 in Scotch Plains, N.J., of a heart condition.

HARBESON — John Wesley Harbeson, Gr. '23, died March 27.

HILLER—Jeannette Snyder Hiller, EdD '52, died Nov. 25 of a heart attack. She was an associate professor at the University of California Medical Center, San Francisco, at the time of her death. She had received degrees from Wells College, Yale, and Columbia as well as Stanford and was active in a number of professional groups. Survivors include her husband.

MATHER — Charles Chambers Mather, Gr. '38, died Aug. 25.

WHITE — Roy Louis White, Gr. '26, died Sept. 13. Survivors include his widow.

Humanities–Sciences

ADAMS—Clement Earl Adams, Gr. '28, died Oct. 18 in Santa Cruz. He was 70. He had been a resident of Boulder Creek since 1949 and was active in civic affairs. He had been on the San Lorenzo Valley School Board and was a past member of the grand jury. Earlier he lived in San Jose and was chief of the Veterans Administration's guidance center and farm labor chief for the county. He was a native of Missouri. Survivors include his widow and two daughters.

LAGERSTEDT—Albert Lagerstedt, Gr. '11–12, died June 1.

MAYKOVICH—Anna Karolina Mueller Maykovich, Gr. 60–, died Sept. 30 at Stanford. She was 26. A teaching assistant in the field of modern languages, she was to have received her doctorate in German next June. Survivors include her parents.

SHARP—Leslie Harrison Sharp, AM '15, died Aug. 6 in Walnut Creek. He was 72. With Tidewater Oil Co. in Avon, Calif., for 25 years, he had long lived in Martinez. He spent five years in the real estate business in Walnut Creek before retiring in 1955. Survivors include two sons, Kenneth, '46, and Donald, '45.

STARK—Elverton Blakney Stark, AM '30, died Dec. 2 in Burlingame. He was 54. In the trade publishing field for many years, he was associated with Miller Freeman Publications for more than 25 years and was considered one of the country's leading authorities on processed foods production. He became editor of *Canner/Packer* when it was founded four years ago as a joint venture of Clissold Publishing Co., Vance Publishing Co., and Miller Freeman Publications. Vance acquired the magazine last year. He had numerous civic, fraternal, and professional affiliations. Survivors include his widow, a daughter, his mother, and two grandchildren.

Law

SAID—John Robert Said, Gr. '34–36, died Aug. 7. Survivors include his widow.

VROOMAN—Vernon Abram Vrooman, JD '23, died Aug. 30.

Medicine

BOYD—Dr. Walter Harrington Boyd, MD '25, died Oct. 22 of a heart attack. He had long been a physician in Long Beach. Survivors include his widow.

The sin of pride in the Pardoner's Tale

by Betty Kantor

(Continued from page 26) what seems to be a sincere benediction when he says:

> And Jhesu Crist, that is oure soules leche,
> So graunte yow his pardoun to receyve,
> For that is best; I wol yow nat deceyve.

Immediately following the benediction is what some critics call the "afterthought":

> But, sires, o word forgat I in my tale:
> I have relikes and pardoun in my male,
> As faire as any man in Engelond,
> Whiche were me yeven by the popes hond.
> If any of yow wole, of devocion,
> Offren, and han myn absolucion,
> Com forth anon, and kneleth heere adoun,
> And mekely receyveth my pardoun.

To explain the sudden change of attitude, Kittredge says that the momentum of the Pardoner's own speech carries him away for an instant, and he makes the mistake of adding to his tale his usual summons to come up to the chancel rail:

> Cometh up, ye wyves, offreth of youre wolle!
> Youre names I entre heer in my rolle anon;
> Into the blisse of hevene shul ye gon.
> I yow assoille, by myn heigh power,
> Yow that wol offre, as clene and eek as cleer
> As ye were born.

Realizing what he has done, the Pardoner recovers almost immediately and reminds the pilgrims that this is the way he is accustomed to preach: "And lo, sires, thus I preche," is the line immediately preceding the benediction. His cynicism suddenly abandons him and—"in a moment, in the twinkling of an eye—he becomes a changed man, reverting to the days before he lost his soul." In a moment of agonized sincerity, he wishes that God may grant the pilgrims a real pardon. Then a reaction follows—the appeal for donations is nothing but reckless jocularity by which the Pardoner attempts to dispel the serious mood he has fallen into.

G. G. Sedgewick asserts that the benediction is neither sudden nor unexpected and that the Pardoner is only following a tradition set by most of the tale-tellers in pronouncing it. Nor does he think that the afterthought is a reaction. The Pardoner, although he is "straight from Rome," sings love songs with the Summoner, the very man who should arrest him. One so audacious needs no emotional stimulation to render him capable of horseplay.

HAVING MENTIONED a few interpretations of the Pardoner's character from historical, analogical, and imaginative points of view, I shall now turn to the tale itself. Kittredge, while agreeing with many critics that the Pardoner's tale is the most perfect short story ever written, points out that the whole "Tale," with its text, introduction, illustrative anecdote, and application, is a medieval sermon. Tupper, however, thinks that the tale itself is an *exemplum* illustrating two of the Seven Deadly Sins, avarice and gluttony.

Yet most critics realize that the relationship between the Pardoner's prologue and his tale allows for more than an illustration of abstract sins. Tupper remarks that the Pardoner's behavior is the frankest example in the *Tales* of the perverse desire to tell stories illustrating one's own faults. Both Sedgewick and Lumiansky show in their interpretations how a certain pride motivates the Pardoner to deliver the prologue and tale. Lumiansky demonstrates how self-importance spoils the Pardoner's ruse at the last minute, and Sedgewick mentions that Chaucer arranges a fall for the Pardoner because he has been "asking for trouble." I believe that there is an even greater parallel between the tale and the Pardoner's character. The pride which Lumiansky and Sedgewick identify in the prologue can also be discovered in a story supposedly the perfect *exemplum* of avarice.

The Pardoner tells of a company of young Flemish men (the number later diminishes to three) who, while drinking and gambling in a tavern, hear the ringing of a bell borne by a parish clerk as he walks before a coffin through the streets. Learning from a young boy that the dead man was their friend, they set out to avenge themselves on death—they will kill the death who killed their friend. On their way, they question an old man as to death's whereabouts. He warns them not to seek death, but they insist, and he gives them directions. At the place the old man has indicated, the three young men find a treasure of gold. Deciding to guard the treasure until night, when they can more safely carry it away, they draw lots and one is sent to the city for provisions while the others keep watch. On his way to town, the one young man decides to rid himself of the others and keep the treasure for himself. He brings back poisoned flasks to his companions. Upon his return the other two, with the same thought about the treasure, kill him. To celebrate, they drink the poisoned wine he has brought and promptly die.

The earliest version of this tale is an old Hindu collection of tales bearing the title *Vedabbha Játaka*. Other versions are found in Persian, Arabic, Kashmiri, and Tibetan. The tale was evidently brought from the Orient to Europe, since it can be found in Italian, German, French, Portuguese, and Latin. The version bearing the closest resemblance to Chaucer's is to be found in the 1572 edition of the *Cento Novelle Antiche*, a collection of tales probably antedating Boccaccio's. In that tale, a Hermit finds a cave in which there is much gold. Upon discovering the treasure, the Hermit runs away. As he runs, he meets three robbers who know nothing about the gold. Asked why he is running, the Hermit says, "My brothers, I flee death, who comes after me, pursuing me." They demand to know where this death is, and the Hermit, although he begs them not to seek death, eventually shows them the treasure. The robbers dismiss the old man and kill each other just as in Chaucer's version. To the analogue is added a moral: "And so our Lord pays traitors, for they went to seek death, and in this manner they found it, and in such way as they were worthy of. And the wise man wisely fled from it, and the gold remained without a master . . ."

In this analogue we find avarice, to be sure. Yet the robbers' search for death is stressed even more heavily. It is clear that by seeking death, the robbers are betraying God. Root says that the supreme irony of the story is in "the eagerness with which death is sought and the ease with which it is found." He also points out that the catastrophe comes as a direct result of evil character.

THERE IS A fundamental difference between Chaucer's tale and the analogue. The characters of the analogue are

robbers who, upon seeing an old man flee- ing something called death, decide that they would like to see this death them- selves. They receive a fervent warning from the old man, but it is so vague that they do not heed it. Chaucer's rioters, on the other hand, are from the beginning bent not only on seeing death but also on killing him in order to avenge the murder of their friend. Their purpose is deter- mined from the outset. Moreover, the warnings they receive are explicit, and from these warnings it is made clear that a search for death is sacrilegious. The first admonition comes from the boy the rioters send out to learn the dead man's name. The boy tells them that the name is not important—although the dead man was, in truth, a friend of theirs. He ad- vises them to accept death and always to be prepared for it:

"And, maister, er ye come in his presence,
Me thynketh that it were necessarie
For to be war of swich an adversarie.
Beth redy for to meete hym everemoore."

This is equivalent to Hamlet's "the readi- ness is all"; it means that one should al- ways be in a state of grace, in constant preparation for death.

Still another warning is given by the old man, who may represent Death itself or possibly the Wandering Jew. This figure, too, entreats the young men not to be so sacrilegious as to seek death. He shows them how terrible a world without death would be, for he himself cannot die. He must wander around, pitifully begging death to take him:

"Ne Deeth, allas! ne wol nat han my lyf
Thus walke I, lyk a restelees kaityf,
And on the ground, which is my moodres
gate,
I knokke with my staf, bothe erly and late,
And seye 'Leeve mooder, leet me in!
Lo how I vanysshe, flessh, and blood, and
skyn!
Allas! whan shul my bones been at reste?' "

He also tells them to remember the cour- tesy enjoined on them by the Bible and not mistreat an old man, for

"'Agayns an oold man, hoor upon his heed,
Ye sholde arise;' wherfore I yeve yow reed,
Ne dooth unto an oold man noon harm now,
Namoore than that ye wolde men did to yow
In age, if that ye so longe abyde."

But the rioters heed neither man nor boy in their unholy search for death. By re- jecting the warnings and seeking death, it is clear that they are committing, first and foremost, the sin of pride which, in terms of medieval thought, is the source of all evil, the root of the Tree of Vice.

About the medieval understanding of the hierarchy of sin, a word or two is rele- vant. The Tree of Vice probably devel- oped from a fusion of a Judaeo-Christian concept with the idea of the cardinal sins. According to medieval theological tracts, the root sin, *superbia,* consists of non- recognition or non-acceptance of one's place in the world. In other words, man must realize that God is the creator of the world and accept His laws and precepts. Failure to be resigned to God's providence is spiritual blindness, says the fourteenth- century *Book of Vices and Virtues:*

For þan synne of pride is wel perilous, for it blyndeþ a man þat he ne knoweþ not hym- self, ne seeþ not hymself.

The first twig on the branch of pride, in- gratitude, is closely related to this spiri- tual blindness:

þat is to forȝete God and his goodnesse, þat men þanken not God oure lord as men schulde.

Again, closely linked to ingratitude is dis- obedience. Says the Parson in his tale:

Inobedient is he that disobeyeth for despit to the commandementz of God, and to his sovereyns, and to his goostly fader.

By referring to the Tree of Vice, then, we see how heinous a sin is the rioters' at- tempted murder of death. Only a man in habitual slavery to vainglory would try to abrogate God's authority by making the world over into a universe without death. The moral of the Pardoner's tale appears nakedly, in fact, in the rioters' rejection of the old man's warning. It is here we un- derstand that, even though the youths kill each other ostensibly out of greed, the story is chiefly concerned with pride.

SOME WOULD SAY that the rioters, torn between pride in seeking to kill death and avarice in lusting after gold, choose

CHAUCER

the latter. For these critics, avarice is the theme. But I suggest that the two choices are by no means true alternatives. By re- fusing to heed the warnings, the young men reject Truth on its own merits. They choose instead a lesser good, the satisfac- tion of their own overweening pride, and they thereby die a spiritual death and are deprived of God's love. The old man rec- ognizes their complete lack of grace, see- ing that they are "so leef/to fynde Deeth" even after he has warned them. Because of their abandonment of God, His path becomes remote to them, thus making the sin of avarice easier to commit than it would otherwise be. Their pride dims their perception of the Perfect Good, so that only the lesser goods are available to them. Avarice, as the Parson defines it, comes when a man is in this condition:

For soothly, whan the herte of a man is con- founded in itself and troubled, and that the soule hath lost the confort of God, thanne seketh he an ydel solas of worldly thynges.

Indeed, it is a deadly sin to put anything whatsoever—money, drink, anger, pleas- ure—before God, so that whether the lesser good is gold or anything else be- comes irrelevant. Because of their greed, the rioters come to a physical death, but this occurs only after pride has caused them to die a spiritual death. Nor can one shift the blame to drunkenness. Gluttony in the form of drinking may be the be- ginning of the rioters' sin, as avarice is the end. But naked pride is the climax.

Pride is not only the chief sin of the rioters, but of the Pardoner himself as well. Whether or not Lumiansky's opinion holds—that the Pardoner's aim from the beginning was to set up a supreme test for himself to see whether he could extort money from the sophisticated pilgrims—it is certainly pride that motivates his boasting confession in the prologue. The Parson's definition of impudence, a sub- division of pride, applies to him perfectly. The impudent man, says the Parson, is "he that for his pride hath not shame of his synnes." Further, the Pardoner is not just a man who is avaricious but ignorant of the sin involved. The fact that he knows something about theology and is working in God's service makes his sin even greater than that of a layman. The Pardoner is fully aware, even proud, of this fact. Knowing that he is using his holy office only in order to make money, he is proud of the fact that he is better than most men in at least one sense—he is a better sinner. To follow Kittredge's reasoning, he is proud to be thought a sinner so long as everyone knows he is a superlative sinner.

Not guilty exclusively of impudence, the Pardoner, like the rioters, is guilty of forgetting his own place in the universe. The pride he manifests is a kind of de- spair, a disbelief in God's power to save;

he recognizes his sins and knows that he should pray to God to help him overcome them, instead of boasting:

> Thus kan I preche agayn that same vice
> Which that I use, and that is avarice.

But he chooses not to ask for help and in effect considers himself irredeemable. Just as the rioters turn to avarice because their sin of pride leaves them no choice, so the Pardoner's turning away from God leaves him no choice but to embrace one of the lesser sins—for him, too, it is avarice. But in comparing the greed of foolish drunkards with the greed of a man of God, the Pardoner's sin is emphasized.

It is ironic that the Pardoner, like the rioters, does not realize the magnitude of his sin. He believes he is telling a story of avarice, just as he believes that his own chief fault is simple greed. Yet what the Pardoner really tells is a story of pride, in which story a plot rebounds on the plotters; and, like a Freudian slip, the same story rebounds on the Pardoner and reveals his pride.

Nor would it be going too far to make another parallel between the tale and the teller. Just as the tale shows that he who lives by the sword dies by it, Chaucer shows that he who lives by pride must suffer by it. For the Pardoner rushes into his proud confession as fast as the rioters rush after death, and, as Sedgewick says, because he has been asking for it all along, the Pardoner takes a fall which Chaucer has prearranged. One may agree with Sedgewick that the Pardoner's final words show that he succumbs to the temptation to poke fun at the pilgrims for becoming embarrassed and solemn on hearing his tale, or one may agree with Lumiansky's belief that the jocosity and lack of dignity in the afterthought are an accidental reversion of the Pardoner to his usual methods. Nevertheless, there is no mistaking the boastfulness and pride with which the Pardoner reminds his fellows that he is among them:

> It is an honour to everich that is heer
> That ye mowe have a suffisant pardoneer
> T'assoille yow, in contree as ye ryde,
> For aventures whiche that may bityde.
> Paraventure ther may fallen oon or two
> Doun of his hors, and breke his nekke atwo.
> Looke which a seuretee is it to yow alle
> That I am in youre felaweshipe yfalle.

It is not death, but rather Harry Bailly, who effects the Pardoner's fall. Subjected to the bitterest invective in Chaucer, the Pardoner of Rouncivale, the most eloquent of proud men, is silent.

The Wife of Bath, the Franklin, and the Monk all tell stories that interpret and define their own personalities. But "The Pardoner's Tale" is Chaucer's most extensive venture into this method of indirect characterization. In this work, one is immediately aware of the fact that there is a relationship between the Pardoner's character and his tale, for a pardoner's main occupation is tale-telling. Not only are we hearing a tale; we are observing a pardoner in action. The interplay of the prologue and the tale is underscored by the fact that the Pardoner does not practice what he preaches; moreover, he makes references to his deviations. The circumstances under which the tale is told and the structure of the Pardoner's performance, then, both contribute to the inherent unity of "The Pardoner's Tale."

ALEMBIC IN LIMBO: A COLLEGE DIALOGUE

(*Continued from page 23*) college and even through graduate school; but the third one frequently fails to ignite, or flames out before he goes into orbit. "All the little time I have been away from painting [wrote Edward Lear in 1859, when he was 47] goes in Greek . . . I am almost thanking God that I was never educated, for it seems to me that 999 of those who are so, expensively and laboriously, have lost all before they arrive at my age – and remain like Swift's Stulbruggs—out and dry for life, making no use of their earlier-gained treasures: whereas, I seem to be on the threshold of knowledge."

Q. Well. . . .

A. Let me say it for you. The average men or women of thirty-five, graduated from college, many of them having sensed the landfall or having seen the beacon; well aware of benefits—of doors that opened, of books that pointed on toward other books, of speculation premising delight—can only say with Coleridge: "My imagination lies like a cold snuff on the circular rim of a brass candlestick." If they learned to haunt old bookstores, did they continue the habit until they had put together a self-selected library of two or three thousand volumes? Very few of them. Do you think they really know and value and reexamine the heart of a dozen great books? I strongly doubt it. Do they read twelve worthwhile books a year? I doubt that, too—more strongly. When they learn that Johnny can neither read nor write, do they ever stop to listen to the sound of their own speech? read the letters which they themselves have written? think before they parrot back clichés that figure like I'm telling you? Have they acquired a modest judgment respecting prints or water colors, etchings, aquatints, or wood engravings? In most cases, no. Do their homes and offices reflect in taste what a hundred dollars or so a year for fifteen years would gratify? Make a mental check of the next ten of each you visit. Music I except because the stereo mind was likely developed independent of the college years; and this is the one art truly catholic in our time. As for the drama, I cannot even guess. It is surely strong in the colleges, and the stock companies (freshly stocked) are witness to that strength. I am minded, rather, of Dorothy Parker's account of a Benchley-Ross exchange in the *New Yorker* office. "On one of Mr. Benchley's manuscripts Ross wrote in the margin opposite 'Andromache,' 'Who he?' Mr. Benchley wrote back, 'You keep out of this.'" Perhaps I should have kept out of this dialogue.

Q. Not at all. Someone may shift Mr. Benchley's "Who he?" to plain "Who? Me?" Someone who thinks that the ethos of college is still with him; who is rusting on his undergraduate laurels for whatever they were worth; who has neither found the time nor taken the trouble to form an exemplary taste for anything—in anything. You remember what a character in *H. M. Pulham, Esquire* said? "On leaving college [twenty-five years ago] I started Gibbon's *Decline and Fall of the Roman Empire* and Nicolay and Hay's *Lincoln*. I am still working on them in my spare time." Amusing, yes; but sadder than amusing—and pathetic in its sadness.

A. The prevailing notion is that one passes through college on the way uptoward success, achievement, or some satisfying approximation. Under this assumption, the college appears as a point—a little gold star—on the curve: about twenty-one years out on the X (horizontal) axis. Interpretation? Enter, exit the college. Agreed? No, that is wrong. It is, in truth, the basic tragedy. Ideally the college remains a function of the curve and not a point upon it—a determining factor of its ultimate character or direction. For example: if against the X lifespan you plot the vertical Y as the sum of special knowledge – what the individual *knows in detail* respecting many subjects—the peak of the curve may well remain at twenty-one, since after graduation most diversified special knowledge tends largely to decrease. An honors student—a good student, for that matter—may never know again so much in several fields as he does in the final week of senior examinations. On the other hand, remembering Whitehead's disclaimer anent the value of "scraps of information," Y may (and should) assume a much nobler role—in-

ellectual power, for one. Granting that, then, any moment on the curve will reflect the increasing functional share of the college in the value of the individual to himself and to society. For want of a better name, let's call that function "the habitual vision of greatness."

Q. Since many have a natural distaste for graphs (graphobia), why not choose the river symbol? The curve suggests a river.

A. Bear in mind that the curve (ideally) runs up, the river down. But fortunately the river runs toward bigger and even better things—the fertile valley and the sea, for instance. You may flow with it or let it float things past you, as you wish. Poets frequently stand close to fishermen in thought. "Poets," says Archibald MacLeish, "are always wading and seining at the edge of the slow flux of language for something they can fish out and put to their own uses." Let me argue, then, that if we think of the college as a river in the slow flux of being, we shall always find something to fish out of it. Erstwhile students of such famous teachers as Churchill of Amherst, Winch of Wesleyan, John McCook of Trinity, Woodberry of Columbia, Strunk of Cornell, David Lambuth of Dartmouth, Bliss Perry and Copey of Harvard have done such fishing and such finding. To this day I remember my high school teacher of German—rich in the culture of the Jewish race—shaking her finger at us, saying: "Never let a day go by without looking on three beautiful things." Trying not to fail her in life meant trying not to fail myself.

Q. Are you suggesting that it is only between the best teachers and the most responsive students that this flux of being can be perpetuated?

A. Not at all. The great critic, George Saintsbury, said of Oxford: "For those who really wish to drink deep of the spring—they are never likely to crowd even a few Colleges—let there be every opportunity, let them indeed be freed from certain disabilities which modern reforms have put on them. But exclude not from the beneficent splash and spray of the fountain those who are not prepared to drink very deep, and let them play pleasantly by its waters." Almost a hundred years ago, Andrew Preston Peabody, Acting President of Harvard, plead publicly for all those of "blameless moral character" who stood scholastically at the bottom of their class. "The ninetieth scholar in a class of a hundred has an appreciable rank," he said, "which he will endeavor at least to maintain, if possible to improve. But if the ten below him be dismissed or degraded, so that he finds himself at the foot of his class, the depressing influence of this position will almost inevitably check his industry and quench his ambition." Today, under the pressure of increasing competition, some reasonably good minds will function somewhere near the foot of every class. Provided that they see the light, who else will be more avid to enjoy what Justice Holmes has called "the subtle rapture of a postponed power"?

Q. Perhaps it is largely the city which stands between the college and the disciples. Within its arcane babel it is hard to distinguish echoes from that other world. And with days pressing in and time running out—in the city, in traffic, in confusion—doubly hard to remember that the physicist has room for Andrew Wyeth, the classicist for *Tarka the Otter*, the Bauhaus architect for *Walden*, the musicologist for Freya Stark, the masters of Univac for the sight of *polygonella articulata* burning in the autumn wind by sandy edges of expressways into Maine, the floundering economist for spotting Indian watermarks in southernmost Wyoming.

A. No wilderness bewildered Academe a hundred years ago; but megatropolis is something else again. Man on his plundered planet, in his silent spring, must come to terms with nature long before his packaged plankton supersedes the boxtop cereal. The colleges, backwater stations as they once were called, are all we have here on the last frontier. Alumni who support them ask and take too little in return. It is their own fault, to be sure. As Samuel Butler could lament that there was (and is) no Professor of Wit at Oxford or Cambridge, so one may deplore—why not?—the lack in all our colleges and universities of an Emerson Chair of the Spirit. You may take that small suggestion indirectly from Matthew Arnold. And a Henry Thoreau Chair of Self-Sufficiency. "It is time that villages were universities," said Henry. The time is coming when they will be. Better than that: when man will be a college to himself, not least of all lest "things grown common lose their dear delight."

STANFORD: City on the Farm

(*Continued from page 2*) gross sales of $175,000. The Stanford Union has been grossing $540,000, and now that the new Tresidder Memorial Union has greatly enlarged our facilities, this will go up considerably.

A staggering amount of insurance coverage is required for our complex organization. Types of insurance include property, earthquake, liability, workmen's compensation, retirement, and medical. Premiums, including those paid by employees on fringe benefit programs, run about $3,320,000 annually.

The campus residential community of 400 private homes for eligible faculty and staff includes Pine Hill I, which was started four years ago, and Pine Hill II, which was opened the latter part of 1961. In the first 15 months we leased 93 lots and made loans on 63 building projects on these lots totaling $1,900,000.

Our Fire and Police Departments are responsible for the safety and security of a daytime population of about 15,000 people and for buildings and personal property valued in excess of $100 million. 5,300 acres of land are in campus use . . . about 3,500 acres for eventual development in support of our educational program.

The main purpose of the Land Development Program is, simply, to earn money to help support the University and to develop in a manner that will be a great credit to the institution and a benefit and credit to the surrounding communities. So far we have leased 575 acres served by 50 acres of roads—our shopping center, professional and administrative area, industrial park, and limited area for residential use. Last year income from these leases produced a gross income of a little over $1 million.

I think these figures show that Stanford is big business. The core of our business is education, and surrounding that core is a complex network of businesslike activities, all vital and necessary to support education and to help make Stanford the great university it is.

Stanford Books and Authors

(*Continued from page 27*) has been included at the beginning of the volume.

Professor Pólya has been connected with Stanford since 1942, and the University has just announced it will name the headquarters building of its new Computation Center in his honor. He has been a professor emeritus since 1953, but remains active not only as a research worker but also as a teacher. Last month, for his important contributions to the teaching of mathematics on the high school level, he was given the second Award for Distinguished Service to Mathematics of the Mathematical Association of America.

Another of Pólya's interests is the role of heuristic reasoning in mathematical discovery. He has published several books on this subject and is currently working on Volume II of his *Mathematical Discovery: On Understanding, Learning, and Teaching Problem Solving.* —J.H.

STUDIES IN MATHEMATICAL ANALYSIS and related topics—Essays in Honor of George Pólya: Edited by Gábor Szegö, Charles Loewner, Stefan Bergman, Menahem Max Schiffer, Jerzy Neyman, David Gilbarg, Herbert Solomon; Stanford Press, 1962; 447 pp.

How to Get the Business Without Really Trying

SUDDENLY, without warning or reason, Stanford got a sharp rap in the mouth from a powerful agency of the U.S. Government. If anyone happens to be compiling a case study of public irresponsibility, it can't be complete without this one.

A key ornamental feature of Edward Stone's Stanford Medical Center design is an attractive pool at the main entrance—a pleasant, restful sight which is now almost taken for granted, since it's been there right from the start. So it was a major shock when, last December, the General Accounting Office publicly accused Stanford of building a pool with funds subverted from a government grant made for other purposes.

Consternation was the order of the day at Stanford, which had filed its final report with the National Institutes of Health four months earlier. Nothing had been heard from the GAO since its preliminary audit in 1960, made before all costs had been billed to Stanford and before any final allocation of these costs had been made by the University. Thus the GAO smeared Stanford's name on the basis, not of information, but the lack of it, at a time when final audit figures had for several months been readily available both at Stanford and at the Department of Health, Education, and Welfare in Washington. This final audit showed that the pool's cost—$82,000—was prorated between Stanford ($62,000) and the City of Palo Alto ($20,000).

GOVERNMENT officials act in the name of the people. There is a presumption that, while vigorously protecting the public interest, they will be thorough, and accurate, and fair. This presumption is usually valid—making it all the more damaging when it is not. When Uncle Sam makes a charge tantamount to an accusation of embezzlement, even your best friends are likely to believe it. They may stand up for you out of loyalty, as some did in the present case, but instead of valid defense they have a tendency to offer lame excuses. The only valid defense, of course, is innocence. No man, and no institution, has a right to steal from the public treasury.

What recourse is there when the charge is false? Nothing very effective: private letters and public statements setting the record straight, and that's about all. The charge, once published, has a life of its own that's almost impossible to snuff out. "Where there's smoke there's fire."

Legislators have total immunity on the floor of the chamber. Protection for government administrators, formally, is not absolute. But add the informal aspects and they are almost invulnerable—unless they admit error, which they seldom do.

It's bad enough when a private citizen slanders his neighbor without proof, and worse when it's done through quasi-public agencies such as newspapers and magazines, because recompense for libel can seldom be won; actual damages must be proved. But it's worst of all when government men operating under the cloak of privilege utter the libel. This special privilege, provided so public men can carry out their difficult tasks uninhibited by improper pressures, carries with it a special responsibility: to be ever careful not to abuse this special status, not by heedlessness or malice to convert it from shield to weapon; not to destroy, in a moment and without proper cause, a reputation carefully established by years of solid performance.

INVESTIGATIONS by public agencies are not only proper, they're essential. Without them, the three branches of our government would be like the three monkeys: see no, hear no, speak no evil. Creeping corruption would soon overpower the body politic.

This power is sometimes abused. It has been employed to get publicity at the expense of innocent strangers, and to "get" political enemies. But usually, investigations are quiet and constructive, with no public accusations made unless the findings warrant.

Currently, Senator Dodd is investigating Berkeley radio station KPFA and Senator McClellan is looking into rumors of gambler influence in professional football. One can't know whether there is sufficient cause for these probes, or whether the findings will be valid, but it's comforting to note that both Senators carefully and discreetly avoid inflammatory statements and charges—admitting only reluctantly that the investigations are even taking place. Newspaper reports are based on other sources—including witnesses who decry the publicity while contributing to its volume with their statements.

The responsibility for official discretion is clear, and so is the means of meeting it. Baldly put, it's to keep your big mouth shut until you know what you're talking about. Unfortunately the GAO didn't follow this pattern. Instead: massive irresponsibility in high places, and damage to the innocent. It's hard to say which is the more disheartening.

Dan Endsley

Take 10... and think!

It's so easy to let things go . . . to postpone the things you know you ought to take care of. Your family's future security, for instance.

If you have procrastinated, why don't you take 10 right now and talk with a CML man. He can help you arrive at a sensible answer to the question, how much and what kind of life insurance should you own? You'll find him sympathetic, understanding, and exceptionally able . . . a good man to work with.

CML agents are trained to fit life insurance into the total family picture . . . to shape it to the needs and dreams of each member . . . to coordinate its values with the family's other assets. Furthermore, they're trained to keep their clients' financial plans always in tune with their changing requirements. You'll find the CML man helpful to know.

Dividends paid to policyholders for 117 years

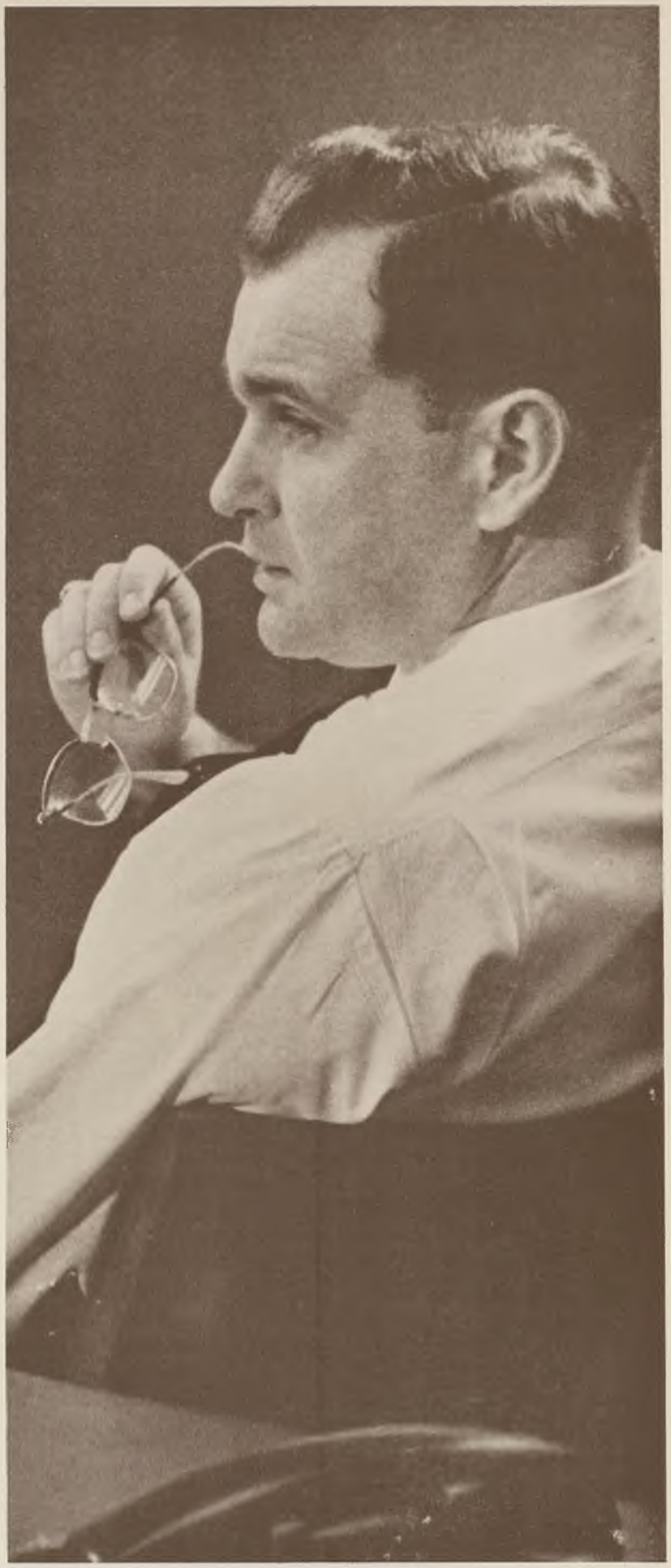
Owned by its policyholders, CML provides high quality life insurance at low cost and gives personal service through more than 300 offices in the United States.

Connecticut Mutual Life

INSURANCE COMPANY • HARTFORD

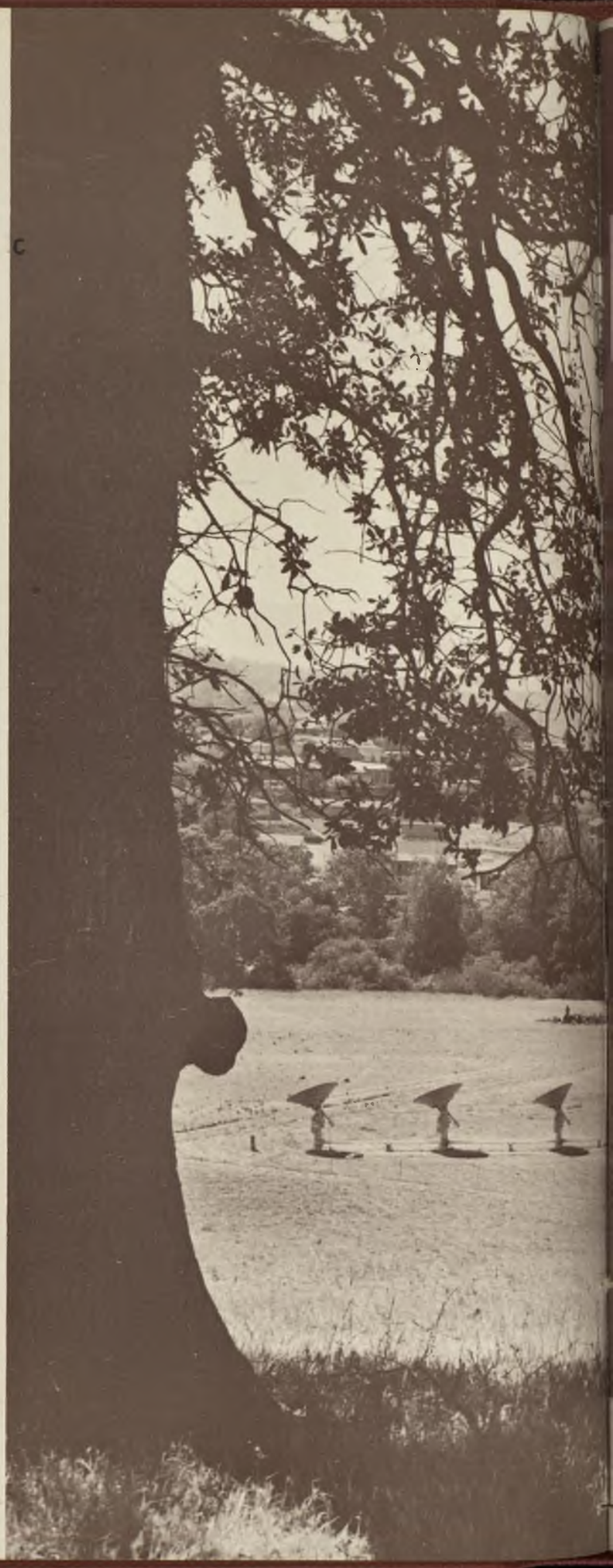
Your fellow alumni who are now CML field representatives

Henry W. Bent, CLU	'40	Los Angeles
James F. Ramsey, Jr., CLU	'51	Skokie, Illinois
Edward A. Sheahan	'47	San Francisco
David M. Thompson, CLU	'33	Los Angeles



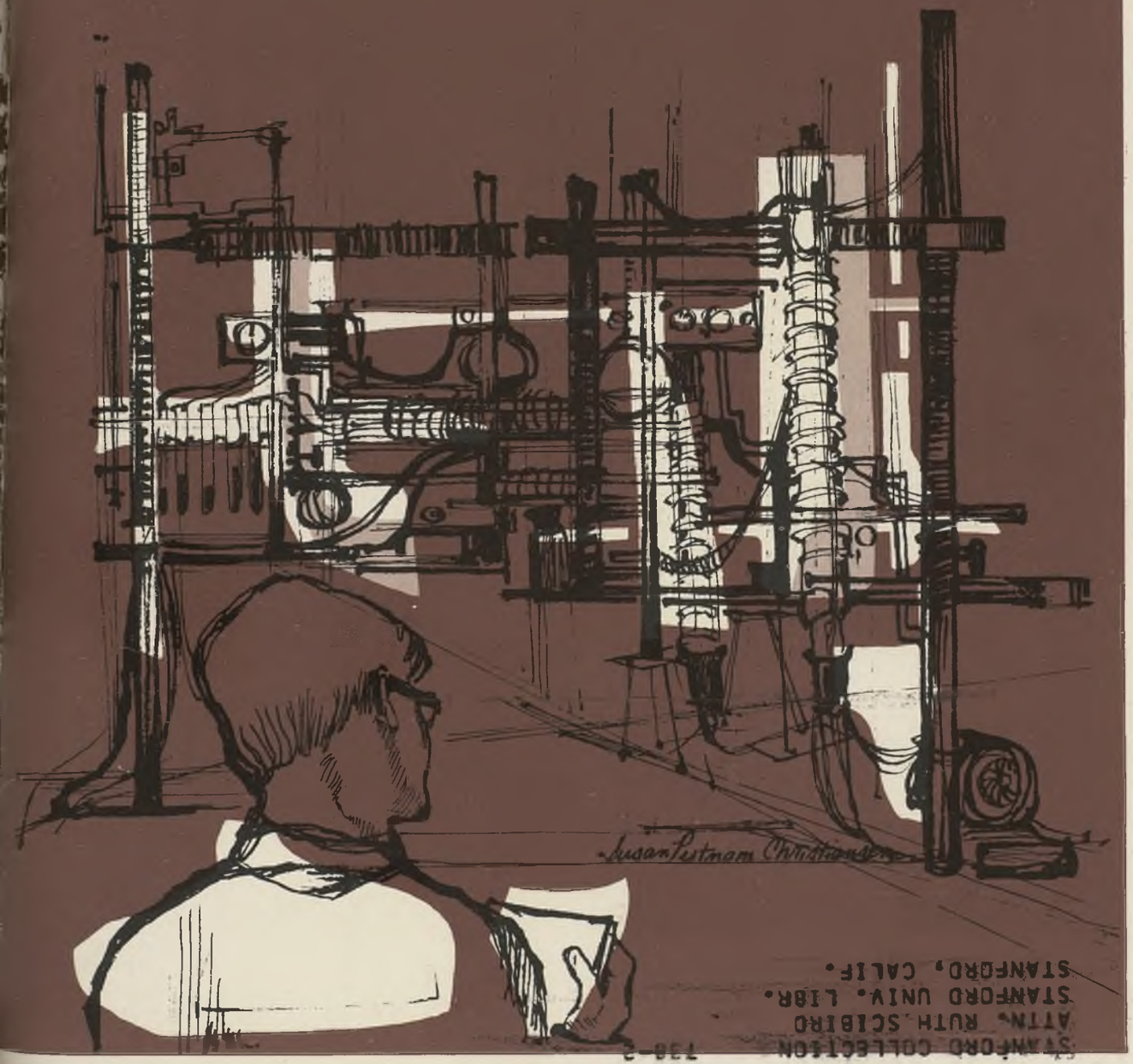
STANFORD COLLECTION
ATTN. RUTH SCIBIRD
STANFORD UNIV. LIBR.
STANFORD, CALIF.

STANFORD'S 32-dish spectroheliograph designed by Ronald Bracewell (above) may offer a way around skyrocketing costs of giant steerable paraboloids (see "Time to Scrub the Dishes" on page 19). Arrayed in a pattern known as a Mills cross, this instrument is America's sharpest radio telescope. It has more than twice the resolving power of Russia's most precise antenna.



March-
April
1963

STANFORD REVIEW



STANFORD COLLECTION
ATTN: RUTH SCIBIRO
STANFORD UNIV. LIBR.
STANFORD, CALIF.

In This Issue: *A special supplement about academic freedom plus articles by:*
Philip H. Rhinelander • Eric Hutchinson • John W. Gardner

Published by the Stanford Alumni Association

March-April 1963

STANFORD REVIEW

Vol. LXIV No. 4

In This Issue:

Free Enterprise in Ideas
Philip Rhinelander on the scholar's role 18

Technology Is Not Enough
Eric Hutchinson discusses responsibility 22

What *Right* Has This Man . . . 25
A special report on academic freedom

Renewal in Societies and Men 41
John Gardner notes flexibility's value

Departments • *The Campus Scene,* page 1 • *Club Calendar,* page 4 • *Alumni Newsmakers,* page 6 *Stanford Family Forum,* page 10 • *Dave Jacobson's Column,* page 14 *Editor's Column,* page 24 • *Strictly Personal,* page 52 • *In Memoriam,* page 60 • *Book Reviews,* page 62

THE STANFORD REVIEW *is published bi-monthly at Stanford University (Palo Alto) with three additional newspaper supplements issued in Autumn, Winter, and Spring under the subtitle of* ALUMNI ALMANAC. *Second Class postage paid at Palo Alto, California. Subscription price: $6 per year, payable in advance, or through membership in the Stanford Alumni Association.*

DAN ENDSLEY, '47, *Editor and Manager*
KAY DALEY, '48, *Activities Editor*

Send news notes and other editorial material, and all inquiries about advertising rates and deadlines, to the Stanford Review, Bowman Alumni House, Stanford.

Change of Address: Notify Review Circulation Department, Bowman Alumni House, Stanford, Calif.

Stanford Alumni Association

GUY R. NEELY, '38, *President*

H. MELVIN SWIFT JR., '48, LLB '49, *First Vice President*

BETTY JEAN CALFEE MULVANA, '45, *Second Vice President*

BOB PIERCE, '49, *Director*

All persons who have matriculated at Stanford University are eligible for membership in the Stanford Alumni Association. Dues of the Association (a non-profit corporation): Annual, $6; life, $115; student special life rate, $100. All privileges begin with initial payment. Associate membership (for second member of a family at the same address as a full member, carries all privileges except Review subscription): Annual, $4; life, $75; student special life rate, $65.

Members of the Alumni Executive Board:
L. HAROLD ANDERSON, '23, Palo Alto
EUNICE FORCE BARKELL, '33, Berkeley
LEWIS L. FENTON, '48, Monterey
LAWRENCE S. FLETCHER, '28, JD '30, Piedmont
Brig. Gen. DON D. FLICKINGER, '29, MD '33, Washington, D.C.
SEBELLE HARDEN VON HAFFTEN, '44, San Francisco
DOROTHY FITGER HAIGHT, '50, Beverly Hills
JAMES C. HAUGH, '42, San Diego
RUTH ELIZABETH TUTHILL HAWES, '28, Portland, Ore.
JOHN B. ISAACS, '31, Los Angeles
WARD C. KREBS, '34, Hillsborough
PAUL V. LORTON, '31, Atherton
JAMES B. MCKINNEY, '46, LLB '48, Sacramento
JOHN N. MITCHELL, '43, La Cañada
STUART W. MORSHEAD, '50, MBA '52, San Francisco
BETTY JEAN CALFEE MULVANA, '45, Bakersfield
GUY R. NEELY, '38, Phoenix
MIRIAM STROUT PERELLI-MINETTI, '32, MBA '34, Hillsborough
H. MELVIN SWIFT JR., '48, LLB '49, Sherman Oaks
LYLE M. NELSON, University Liaison Officer, Stanford

The Campus Scene

Summer Radio-TV Institute

The 21st Radio-Television-Film Institute will be held June 24 to Aug. 17. Additionally, there will be a Special Program in Educational Television, the same dates, according to Dr. Stanley T. Donner, director of the Institute.

Special Program registrants will study "Communication in Society," "Educational Television Operation," "Teaching by Television," and "Television Production" in addition to electing one of the regular Institute courses.

A New Student Health Center

A gift of $750,000 from the S. H. Cowell Foundation will make possible the construction of a new student health center on campus. In announcing the gift, President Sterling pointed out that this was one of the most acutely needed facilities. Students have been relying upon the out-patient clinical services in a wing of the Women's Gymnasium, originally set up to serve 500 women students. The student infirmary currently is a wooden structure nearly five miles away from the center of the campus.

The new health center, which will bear the Cowell name, will house a 40-bed infirmary, with physicians and nurses available 24 hours a day. There will be offices, treatment and examination rooms, a small laboratory, an emergency unit, and a physical therapy area. The location selected is on the south side of Campus Drive, a short distance from Wilbur Hall.

The late Samuel Henry Cowell of the Henry Cowell Lime and Cement Co. left his estate in trust to be administered for charitable and educational purposes.

Student Scholars Receive Honors

In the flurry over the fact that three undergraduates have received Rhodes Scholarships, it would be easy to overlook other honors coming to the current student. But the list this year is far too impressive to ignore, as reports of Marshall, Danforth, and Woodrow Wilson scholarships and fellowships are received.

Marshall Scholarships have been awarded to three Stanford students—William Butler, Thomas Grey, and Mark Matovich. All will have the opportunity to study at a British university for at least two years, with a possible third-year renewal. Twenty-four such scholarships are awarded annually by the British government, and Stanford led the 1963 field in having three persons named. Upon hearing of the honor, Butler said that he will study modern history at Wadham College, Oxford. He is 22, and hails from Grosse Pointe, Mich. Grey, who is from La Jolla, will spend his time studying philosophy at Brasenose College, also Oxford. Both seniors, they are members of Beta Chi fraternity (formerly Sigma Nu) and Phi Beta Kappa. Matovich, now in his fifth year in chemical engineering, will work at Cambridge University. He has been studying under a Stanford and Claremont Men's College program.

Danforth Graduate Fellowships, presented to those who have "remarkable promise as future teachers," have been granted to two of the Stanford students who earlier received Rhodes Scholarships—Willard Scott Thompson and Robert James Woolsey Jr. These fellowships are for up to four years of graduate study with an annual stipend plus tuition at any U.S. graduate

The Physics Corner will have a new name when remodeling is completed and it is turned into the Mathematics Department headquarters—thanks to a grant of $1 million from the Alfred P. Sloan Foundation. The number of majors in the department has nearly doubled in recent years, and the department has been operating in five locations. The four-story building, vacated when the Physics Department moved into the Varian Laboratory, will be completely modernized during its conversion from four to five stories.

Quotes From the Campus

A scholar is a searcher for reality who runs headlong into life—not away from it. *—Catherine Drinker Bowen, noted biographer, in Tuesday Evening Series address.*

The cohesion of the Communist camp remains dependent on Soviet military power. As long as this is the case [in spite of signs that Iron Curtain countries are now less an empire than a coalition], American policy must be based on the assumption that the world center of Communist power continues to lie in Moscow. *—Wayne S. Vucinich, professor of history, in Stanford Conference presentation.*

Acceptance of the unrealistic and defeatist idea that capital for the development of non-industrial countries can and must be contributed only by government-to-government grants and loans will prove to be the greatest disservice to the countries in need of such capital. It is up to developing nations to create conditions and a legal environment which attracts foreign capital. *—Karl Brandt, director, Food Research Institute, in* Challenge *magazine.*

. . . Invariably 80 percent of a company's distributors move, at best, 20 percent of its output, while 10 percent or fewer of the distributors move two-thirds to three-quarters of total sales. This, unfortunately, very few managers know. The traditional information systems, especially accounting, conceal rather than highlight this fact . . . *—Peter F. Drucker, New York U. economist, in talk at Stanford's Graduate School of Business.*

A reduction to a maximum of 50 percent in the individual income tax would have a negligible direct effect on revenue. But . . . it would clear the atmosphere and do more than anything else to remove the tax discouragement to extra effort and risk. *—Dan Throop Smith, visiting professor of finance (from Harvard) in the Graduate School of Business.*

school. Students are selected on the basis of intellectual promise, personality congenial to the classroom, integrity, genuine interest in religion, and high potential for effective college teaching.

Also looking for the future college teacher is the Woodrow Wilson Fellowship program, and 18 Stanford students have received first-year fellowships for 1963–64. The fellowships cover tuition and fees for the first year of graduate study at the college of the winner's choice, plus a stipend. In addition to having a large number of current students recipients of the honor, Stanford ranks high as an institution where winners continue their studies. During the current academic year only four schools have more Wilson fellows.

Perhaps the large number of honors is a reflection of the continuing popularity of Stanford among National Merit Scholarship winners; another confirmation of the caliber of the current undergraduate population. There are 118 Merit Scholars on campus, 39 of whom are attending for the first time this year. Stanford ranks third among all American colleges and universities as a study center for winners, behind Harvard and the Massachusetts Institute of Technology.

Among Recent Campus Visitors . . .

PROGRESS IN TRANSPORTATION has continued to make the world appear even smaller, to the benefit of an academic community. Stanford students, in recent weeks, have been personally exposed to direct contact with a number of recognized leaders in various fields. Among those participating in campus activities:

Arnold Toynbee, famed British historian who delivered a Tuesday Evening Series talk on "An Historian Looks at the World Today"; Carlos Romulo, former president of the U.N. General Assembly, speaking on "Design for Action" at a Conference on Educational Investment in the Pacific Community; Associate Justice Byron R. White of the Supreme Court, who heard the final arguments in the Marion Rice Kirkwood competition; Dr. Edward Teller of the University of California on "Peaceful Uses of Nuclear Energy"; and Frederick H. Boland, Ambassador from Ireland to the U.N. and 15th General Assembly President.

A Reminder: Campus Conference May 25

THIRTEEN faculty speakers; three musical programs; tours, including one to the new Tresidder Memorial Union; the Alumni-Varsity football game; Class and Club Leaders Workshops; the Spring Sing; the Golden Anniversary Reunion of the Class of 1913—not a month's schedule, but an outline of the Campus Conference and related activities to take place May 24 and 25.

More details were presented in the Spring *Alumni Almanac*; alumni of the Bay Area are receiving printed announcements. All alumni are invited, and further information is available at the Alumni Office.

Engineering Study—Five Years Later

ENGINEERING GRADUATES who entered as freshmen in 1953 recently were questioned as to their plans and progress. Among the findings:

- Almost half have returned to the classroom, one in three having a master's degree, one in 25 a doctorate.
- Most advanced degrees have been earned at Stanford.
- Of those still planning to do graduate study, most will work for advanced degrees in engineering, though many plan to study business.
- Two-thirds work for corporations and earn $8,000 to $10,000 per year.

"You don't look that old, sir"

This reminder of passing years during reminiscence is the mild sort of shock one can laugh about and forget. But also one can use it to take a long, practical look at the future security of his family.

Perhaps you've been postponing finding out how much and what kind of life insurance you should own. This could be the time to seek the help of a CML man. He knows how—and he has the tools—to fit life insurance to the precise requirements of your family. What's more, he doesn't tell you—he asks you: How much money do *you* want delivered to whom and when and how often?

Actually, your CML agent may be able to show you how to stretch your present life insurance to provide more money at the right times *without increasing its cost one cent!* Talk to him soon. You'll find him a fine man to do business with.

Dividends paid to policyholders for 117 years

Owned by its policyholders, CML provides high quality life insurance at low cost and gives personal service through more than 300 offices in the United States.

Connecticut Mutual Life

INSURANCE COMPANY • HARTFORD

Your fellow alumni now with CML

Henry W. Bent, CLU	'40	Los Angeles
James F. Ramsey, Jr., CLU	'51	Skokie, Illinois
Edward A. Sheahan	'47	San Francisco
David M. Thompson, CLU	'33	Los Angeles

Challenging projects . . . assured security . . . growth and utilization of professional skills with . . .

AEROJET

Azusa, California

(25 miles east of Los Angeles)

These positions now available . . .

HEAT TRANSFER ENGINEER

B.S. with M.S. preferred in Mechanical or Chemical Engineering with a minimum of two years' experience in conduction, radiation and convection process for work in analytical studies on major liquid rocket engine programs. Experience in transient analysis desirable.

SENIOR STRESS ANALYST

B.S.M.E., advanced degree preferred, with 5 to 8 years' experience in design of rocket engine systems including thrust chambers, propellant feed systems, components and thrust vector control. Experience should include stress analysis, pressure vessel design and knowledge of high temperature materials.

CRYOGENIC ENGINEER

B.S.M.E. required with experience in cryogenic fluids as they relate to propulsion application. Knowledge of hydrodynamics and physical properties of various fluids used in missile propulsion also required.

TANKAGE ENGINEER

Graduate engineer with knowledge of advanced concepts and theories in stress and strain distribution and configuration relative to lightweight, high-strength missile tankage. Must be familiar with current advanced materials of construction when exposed to corrosive and cryogenic fluids.

MUST BE U.S. CITIZEN

For information write today to:

MR. R. S. LAWRENCE
6352 Irwindale Ave.
Azusa, California

AEROJET GENERAL TIRE GENERAL

A subsidiary of the General Tire & Rubber Co.

AN EQUAL OPPORTUNITY EMPLOYER

CLUB CALENDAR

Thursday, April 25
BAY AREA JUNIORS—Annual Meeting, election of officers, at Shanty Malone's, 570 Clay St., beginning at 5:30 p.m.—Entertainment, speaker, etc.!

Tuesday, April 30
EAST BAY WOMEN—Annual Meeting, 10:00 a.m., at Lake Merritt Sailboat House—Program to include book review by Mrs. W. Blair Smith—Special guests to be club members of classes prior to 1913.

Wednesday, May 1
EAST BAY MEN—Luncheon Meeting at Peluso's, 12:00 Noon—John D. Black, director of the Counseling and Testing Center, speaker.

Friday, May 3
EAST BAY WOMEN—Continuing, the lecture series on "Heroes and Heroines in American Literature" with Dr. David Levin—at home of Mr. and Mrs. Arthur Bell, 110 Dudley Ave., Piedmont, beginning at 10:00 a.m.

ORANGE COUNTY—Annual Meeting, including election of officers and a program of interest to all.

Saturday, May 4
NURSES CLUB—Reunion-Scholarship Benefit Luncheon at the Cabana Motor Hotel, Palo Alto.

Sunday, May 5
MARIN COUNTY—Barbecue Picnic at the Marin Town and Country Club, Fairfax, beginning at 11:30 a.m.—for the entire family!

Tuesday, May 7
PALOS VERDES JUNIOR WOMEN—Business meeting, election of officers.

Wednesday, May 8
SAN FRANCISCO WOMEN—Annual Luncheon Meeting at the Octagon House, 2645 Gough—Architect Mario Ciampi will be the speaker.

Tuesday, May 14
PASADENA WOMEN—JUNIORS—Book Review Program Meeting—with Edna Stearns Dayton as the reviewer—at the home of Sally Beeman Terry, 975 Oak Grove Ave., San Marino.

Wednesday, May 15
EAST BAY MEN—Luncheon Meeting at Peluso's, 12:00 Noon—A program on the fall football prospects.

Friday, May 17
EAST BAY WOMEN—Final program in the lecture series, "Heroes and Heroines in American Literature," with Dr. David Levin—at home of Mr. and Mrs. Arthur Bell, beginning at 10:00 a.m.

Saturday, May 18
NAPA VALLEY—The First Napa Stanford Conference—at Krug's Winery.

Thursday, May 23
SACRAMENTO WOMEN—Luncheon and Bridge Party at the University Club, beginning at 12:30 p.m.—Officers to be elected.

Friday, May 24
NATIONAL CLUB LEADERS WORKSHOP for newly elected club presidents—Rickey's-Hyatt House, Palo Alto.

Tuesday, May 28
LOS ANGELES WOMEN—Spring Scholarship Tea at the home of Lorna Spaulding Gentile, beginning at 1:00 p.m.

Sunday, June 9
SAN FRANCISCO WOMEN—Annual Party at the home of Mr. and Mrs. Evan Peters in St. Helena.

Sunday, June 23
SACRAMENTO MEN AND WOMEN—June Supper at the home of Mr. and Mrs. Peter Polk.

System contractor: DYNA-SOAR

System integration: MINUTEMAN

Boeing 707 with Boeing-Vertol 107

New Boeing 727 short-range jetliner

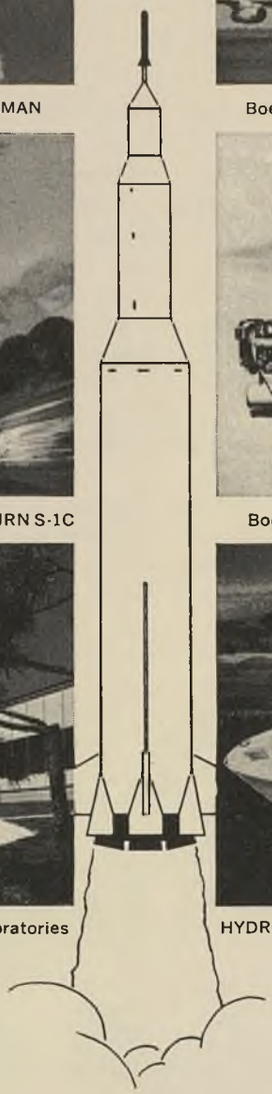
Space booster development: SATURN S-1C

Boeing turbines power helicopters

Boeing KC-135 jet tanker-transport

Boeing Scientific Research Laboratories

HYDROFOIL development, construction



CAREER BULLETIN FROM BOEING

The continuing expansion of advanced programs at Boeing offers outstanding career openings to graduates in engineering, scientific and management disciplines. At Boeing you'll find a professional climate conducive to deeply rewarding achievement and rapid advancement. You'll enjoy many advantages, including up-to-the-minute facilities, dynamic industry environment, and company-paid graduate study programs (Masters and Ph.D.).

For further information, write today to Mr. Conrad E. Brodie, The Boeing Company, P. O. Box 3822 - UST, Seattle 24, Washington. Boeing is an equal opportunity employer.

BOEING

Alumni Newsmakers

JUNIOR CHAMBERS of Commerce traditionally announce "Young Men of the Year" awards in early spring, and it is not unusual to find Stanford alumni winning such honors. The Monterey Peninsula 1962 award has gone to Jack H. Chalkley, '53, account executive with Schwabacher and Co., and former president of the Monterey Peninsula Stanford Club. He has been active in Cancer Society work and a number of other civic groups. The club's "booster" award has gone to Allen Griffin, '17, publisher of the *Monterey Peninsula Herald* – as the person who had done the most during the year to help the work of the organization.

The Palo Alto Jaycee "young man" citation didn't go to an alumnus, but the "Boss of the Year" is Ryland Kelley, '49, vice-president of the real estate firm of Hare, Brewer & Kelley. He was the first president of Downtown Palo Alto, Inc.

And, in San Francisco, Jaycee activity was recognized by the "seniors," who have just named George

S. Reppas, '51, MBA '53, to the post of assistant treasurer and to the board of directors. He is an immediate past president of the San Francisco Junior Chamber. Professionally, he is a partner with the CPA firm of Reppas & Bradshaw and is serving on the board of directors as vice-president of the Alec Membership Shopping Centers of Menlo Park and Colma.

WHEN A WOMAN heads an organization of attorneys, that's news. It is even more newsworthy if she happens to be 29 years old and the mother of a 19-month-old daughter.

Carla Anderson Hills, '55, fits the above specifications, for she has just been elected president of the Los Angeles chapter of the Federal Bar Association—the youngest person, and first woman, to head the 350-member group. A graduate of Yale Law School, Mrs. Hills practices with her husband, Roderick, '52, LLB '55, in Los Angeles. "My husband says he finds me a more interesting wife because of my job," she notes.

TWO SAN LUIS OBISPANS retired in January, leaving long and distinguished records of service to the area.

The first, an educator, was Alvin E. Rhodes, AM '41, who had served as superintendent of San Luis Obispo County schools since 1947. The entire "educational family" – teachers, administrators, school board mem-

bers, and college faculty from Cal Poly joined to honor him at a dinner and "This Is Your Life" program on Dec. 29. Among the presentations was the first copy of a booklet he wrote for the National Education Association on the significance of intermediate education.

Also retiring was Ray B. Lyon, JD '18, who had been a Superior Court

judge in San Luis Obispo since 1938. He, too, was honored at a reception at the time of his retirement. During his career he worked for the creation of the California Youth Authority and has long taken an interest in the treatment of juveniles. He plans an active life in retirement – fishing, hunting, and travel.

RECENTLY named a senior vice-president of Wells Fargo Bank is Ward C. Krebs, '34, a member of the Alumni

Executive Board. Head of the commercial loan department, Krebs joined the bank's Sacramento staff in 1936. He was vice-president in charge of the Sacramento district before his assignment to San Francisco 2½ years ago.

CLASS PRESIDENT Dr. Robert Livingston, '40, MD '44, has been named chief of the general research support branch, division of research facilities and resources, of the National Institutes of Health. He has received the Special Aerospace Medicine Honor Citation "for outstanding service to the citizens of the United States of America in the successful orbital flights of its astronauts." Dr. Livingston had been chief of the Laboratory of Neurobiology since 1961.

THREE RECENT graduates are studying abroad during the current year, under grants from Rotary International. Recipients of the Rotary Foundation Fellowships for International Understanding are Beverly Hensing, '56, Carol Conroy, '61, and William Bischoff, '59. (*Continued on page 8*)

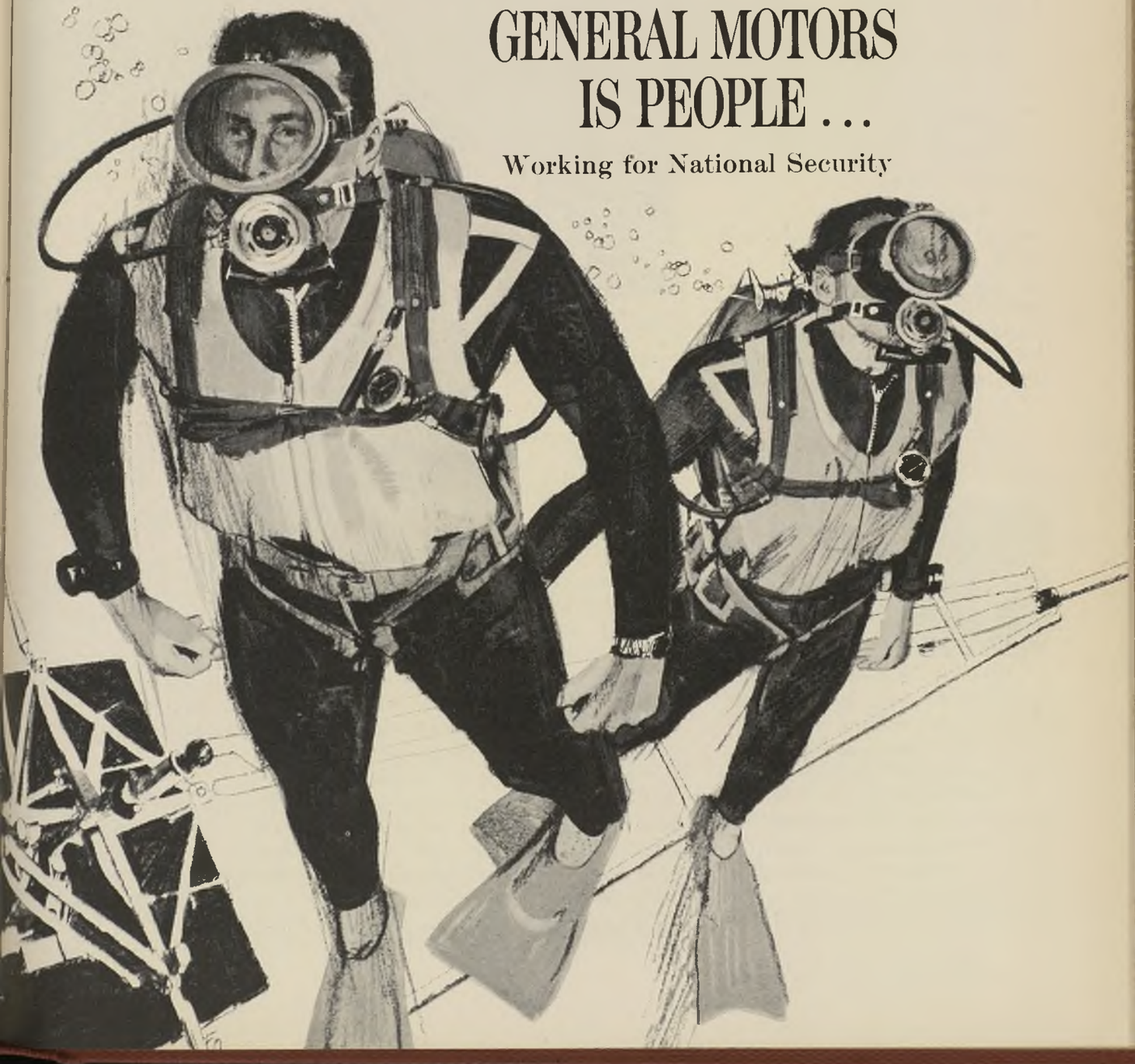
DEFENDER

Scuba divers . . . on the job for General Motors. Project: underwater tracking-range experimentation to help improve our Navy's anti-submarine warfare capabilities. That's right—even here in the dream world of the sea, GM people have a job to do. National defense! Land, sea, air and space requirements like an underwater surveillance system . . . or vehicles to move soldiers and cargo over swampy jungle trails . . . or a mobile atomic reactor to provide electric power for remote combat areas.

Working on these defense problems now are microwave and electronics experts, nuclear and solid state physicists, acoustics, ballistics and mobility specialists. They're the GM defender team. But, of course, GM is many teams and a *great many people* . . . all working for you!

GENERAL MOTORS IS PEOPLE . . .

Working for National Security



NEWSMAKERS: *Continued*

Miss Hensing, who is from Phoenix, is studying at the Catholic University of Ecuador in Quito, furthering her career as a teacher. She has also studied at Middlebury College and the University of Madrid.

Miss Conroy, sponsored by the Rotary Club of Ogden, Utah, her home town, is studying comparative education at the University of Lausanne, Switzerland. She has received a master of arts from Harvard and has been working for a doctorate at Columbia.

Bischoff, preparing for a career in teaching, is studying modern European history at the University of Zurich, Switzerland. He has done graduate work at the Free University of Berlin and Harvard.

THE INDIANA Senate passed a resolution commending the work of James B. Kessler, '46, director of the State Tax and Financing Policy Commission and a member of the Department of Government at Indiana University. The resolution noted that Kessler worked hard and "maintained the patience, perserverance, poise, dignity, and friendly cooperative attitude as an expert in a highly controversial field of law" during the legislative session.

NAMED TO the 1962 *Sports Illustrated* Silver Anniversary All-American roster was Dr. Weldon B. (Hoot) Gibson, MBA '40, PhD '50. The group is made up of ex-gridders who played their last collegiate game in 1937 and have since achieved distinction in business, law, medicine, education, the military, and public service. Dr. Gibson was a senior letterman at center at Washington State.

With SRI since 1947, he was largely responsible for the economics research division's steady growth in size and international prominence. Included among the projects he has worked on are a 1951 survey of Italian mechanical industries, a 1952 study of Italy's facilities for industrial research, and other projects in India, Pakistan, and Iran.

ITEMS OF INTEREST concerning three San Diego alumni—all associated with Home Federal Savings and Loan Association—

Kim Fletcher, '50, executive vice-president of Home Federal, has been elected president of the Savings and Loan Clearing House of San Diego. He is a past president of the Stanford Club of San Diego, and currently serves as treasurer of the Tri-Hospital Building Fund. He is also a former director of Scripps Memorial Hospital.

A new senior vice-president of Home Federal is Gordon C. Luce, '50, who was named to the new post after having been a vice-president. He will continue to direct savings operations and business development of the firm. Luce, a director of the Stanford Club, has been active in a number of business and fraternal groups.

John Guth, MBA '39, has been named a vice-president of the firm. He joined the company in 1959 and in his new post will continue to head the appraisal department.

CELEBRATING their Golden Wedding Anniversary recently were Mildred Hayes, '11, and Almon E. Roth, '09, JD '12. Family (including a son, two daughters, and 14 grandchildren) and friends gathered for the occasion.

Roth, Stanford's first comptroller, and a former member of the Board of Trustees, also has won an international reputation as a consultant on waterfront labor relations and shipping problems. He still practices law in San Francisco and is chairman of the hearing board of the Bay Area Air Pollution Control District. Mrs. Roth continues to devote many hours to the Stanford Convalescent Home.

TWICE a "newsmaker" in a period of weeks—George Gribbin, '29. First he was elevated from the presidency to chairman of Young & Rubicam, advertising firm with which he has been associated since 1935. He will continue to serve as chief executive officer. Then came the news from the White House that President Kennedy had asked Gribbin to serve as a member of the Peace Corps National Advisory Council. The busy executive also serves on the board of the Advertising Council.

BILL BOSWORTH, '54, has made a survey of the political activities of the Church Hierarchy and of the organizations connected with the Church in France during the post-war period. His studies have been presented in a book, *Catholicism and Crisis in Modern France* (Princeton University Press). He particularly considers the Catholic reaction to state aid for Catholic schools (in France) and to the Algerian crisis. Professor Bosworth joined the Hunter College faculty in 1960, after receiving his doctorate from Princeton.

DORSET J. WHITE, '51, vice-president of Tork Time Controls, Inc., Mt. Vernon, N.Y., is devoting a great deal of time to the furthering of export trade. He speaks before Chambers of Commerce and other business groups—and recently was one of a panel of foreign trade experts at the "World Trade and Marketing Conference" in Albany, N.Y.

NEWLY ELECTED first vice-president of the California Traffic Safety Foundation is Harry L. Bright, '29. In business life he is assistant vice-president for public relations and advertising of Pacific Telephone Co.

Massachusetts Mutual Home Office

Stanford men in good company

Ask any alumnus who's a Massachusetts Mutual policyholder. (And there are lots of them!) He'll tell you Mass Mutual is an outstanding company.

It's dynamic growth is reflected in the fact its assets are now over 2.7 billion dollars.

Its life insurance policies are known for their *built-in quality* — progressive, liberal, flexible.

And its representatives are of top calibre.

For instance, *nine times* as many Mass Mutual men are members of the Million Dollar Round Table as the industry average. *Six times* as many have received the industry's National Quality Awards. And *four times* as many have earned the Chartered Life Underwriter designation.

Furthermore, the achievements of Mass Mutual representatives are reflected in their own incomes. Over a hundred Mass Mutual men are now *averaging* $30,000 a year. *In our entire sales force, men with 5 years or more experience are averaging close to $14,000.*

If *your* job isn't pointing to the kind of future you feel you deserve, let us tell you more about a career with Mass Mutual. Just write a personal letter about yourself to *Charles H. Schaaff, President, Massachusetts Mutual Life Insurance Co., Springfield, Mass.* It could well be the most important letter you've ever written.

Some of the West Coast Group alumni in Massachusetts Mutual service:

U. OF CAL.

John F. Curtis, C.L.U., '28, Los Angeles
Arthur C. Yearin, Jr., '48, Fresno
Marvin A. Huss, '54, Kansas City
David E. Smith, '56, Los Angeles
Julius S. Hauso, San Francisco

STANFORD

Edward Neisser, '26, Los Angeles
Lucia C. Mitchell, '28, Syracuse
Thomas W. Cordry, Jr., '33, San Francisco
Fred R. Miner, '40, Stockton
Jacob E. Way, Jr., '44, Waukegan
William W. Davies, C.L.U., '48, Los Angeles
Joseph F. Monasta, C.L.U., '48, San Jose
Robert H. Woodward, Jr., '49, Palo Alto
David C. Englehart, '53, Portland, Ore.
Ronald P. Tomsic, '55, Oakland
Earl F. Brown, '55, Los Angeles

U. OF OREGON

Carlo A. Apa, '42, Portland
Roy K. Temple, '44, Pendleton

OREGON STATE

James W. Dunn, '51, Beaverton

THE APPOINTMENT OF
VERN C. CLARK
(FORMERLY GENERAL MANAGER
OF THE MARK HOPKINS HOTEL) AS
GENERAL MANAGER
OF THE LOS ANGELES
Beverly Wilshire Hotel
IS ANNOUNCED WITH PLEASURE.
Hernando Courtright
PROPRIETOR, BEVERLY WILSHIRE HOTEL

Readak, Inc.

SUMMER READING COURSES

SUMMER SESSIONS, for the elementary, advanced and superior reader of any age.

Courses stress phonics, grammar, composition, spelling, comprehension and speed.

Classes begin on June 17th, July 15th, and August 12th.

For further information call your nearby Readak school in San Jose, Palo Alto, San Francisco, or Santa Barbara.

KIRK LAWSON, '53, President.

Personalized Travel Counseling

Leo T. Sides
THE TRAVEL SERVICE, INC.
Shopping Center at Stanford
Palo Alto, California
Davenport 4-1691
We Show You How To Go

SPECIAL OFFER TO ALUMNI OF STANFORD
GOING TO EUROPE AND PLANNING TO LEASE OR BUY
A CAR IN EUROPE
• Peugeot • Mercedes
• Renault • VW
AND ALL OTHER MAKES
•
Special Savings to the alumni group *in addition* to substantial savings on import duty and excise taxes.
•
Write Ed Sloane for details and Brochure SW
This offer is made
on the exclusive responsibility of
CAR-TOURS in Europe
2 EAST 46th STREET, N.Y. 17, N.Y.
PLaza 1-3550 (212 PL 1-3550)

The Stanford Family Forum

Likes New Review Format

IT GIVES ME a great deal of pleasure to express my appreciation for the new look of the *Stanford Review* . . . As one of your less articulate subscribers I feel you should know that the improvement has been noticed.

The feature "Alumni Newsmakers" has in my opinion long been due. While the notices regarding personalities now given under your "Strictly Personal" heading are interesting and in some cases flattering, they cannot serve the purpose of recognition to Stanford people who have made outstanding contributions—and there must be many—on the current scene. Other features over the past year or two have also been progressively better.

A. N. CULLING, '30
Los Angeles

Pro and Con on KPFA

IN COMMENTING on the U.S. Senate subcommittee's investigation of the Pacifica Foundation, *Stanford Review* states that "KPFA and its affiliates have long provided a forum for almost every conceivable view, popular and unpopular . . ."

Of itself, the fact that speakers of all political hues have at some time spoken over KPFA (or KPFK in Los Angeles) is meaningless.

A great majority of the programming time KPFA and its affiliates devote to political issues is allotted to spokesmen of the hard Left and to admitted Communists . . . just check their program log for a few weeks.

J. TIM TERRY, '55
San Marino, Calif.

I WISH I COULD convey the feeling of distress that this alumnus has concerning the attitude of the University administration toward the students in the KPFA affair. If the students are to be muzzled in such a fashion then "Die Luft der Freiheit *nicht* weht" should become our motto. KPFA was certainly a "wind of freedom" when I lived in the Bay Area and should be supported to the fullest by the students and administration. I would like to be proud of Stanford in *every way*. I hope it is not selling its soul for the biggest radio telescope (*Continued on page 12*)

T ENGINEER Don Tickner checks effects of salt on equipment on beach-located test platform. is a member of the Dept. of Engineering Re-h, a gateway for graduate engineers in the neering trainee program.

MEN &

NUCLEAR ENGINEER Bob Patterson (checked shirt) "takes 5" with crew during pre-operation tests of the new Humboldt Bay Nuclear Power Plant. Engineers at PG&E can build careers in a stable—yet creative—atmosphere.

IDEAS

LOCAL MANAGER Dave Mitchell (left) reviews with Edward J. Gribble, Anderson public works director, the city's new street lighting master plan. Dave, 35 years old, is PG&E's principal business contact with this community on-the-grow.

GROW IN PG&E'S CREATIVE CLIMATE

The creative outlook at PG&E in engineering, research and business management inspires new achievements in these fields. And the men grow, too, as PG&E builds more new gas and electric facilities for a growing California. The construction investment will be nearly a quarter of a billion dollars in 1963 alone!

CAREER OPPORTUNITIES: As the nation's largest energy utility, PG&E offers careers in engineering and many other fields, and interesting day-to-day challenges. Interested? We will be glad to talk with you anytime. Inquire at 245 Market Street, San Francisco, or any Division headquarters.

P·G·E.

PG and E

Pacific Gas and Electric Company

SCHOOL DIRECTORY

SCHOOLS FOR BOYS

MENLO School & College

TWO MILES NORTH OF STANFORD

WILLIAM E. KRATT, President — Member of California Association of Independent Schools

SCHOOL
College preparatory for grades 7 through 12. Day and boarding department for all boys.

COLLEGE DIVISION
Freshman and sophomore college years, in preparation for upper division college and university work.

SCHOOL OF BUSINESS ADMINISTRATION
Four year college, offering courses which lead to the degree of Bachelor of Science in Business Administration.

College Summer Session

FOR CATALOGUE AND FULL INFORMATION, WRITE OR PHONE:
Director of Admissions, Menlo School & College, Menlo Park, Calif.

The Robert Louis Stevenson School

"On the Seventeen Mile Drive"

PEBBLE BEACH, CALIFORNIA

College Preparatory

Grades 7–12

ROBERT U. RICKLEFS, '31, Headmaster

Box 110 — Pebble Beach, California

San Rafael MILITARY ACADEMY

Founded 1890

Thirty minutes from San Francisco in beautiful Marin County

College Preparatory — Church Affiliated
Fully Accredited

An Episcopal boarding and day school for boys of all faiths. Grades 7–12. Small classes. Exceptional science facilities. Olympic length, heated swimming pool. Individual and team sports. Ski trips.

Non-military summer sessions: Grades 5–12

For information write The Rev. Sumner Walters
B.A., M.A. (Stanford '49); Ph.D. (Oxon.)

or: Mr. A. C. Agnew, Jr. (Stanford '40)
Business Administrator

SCHOOLS FOR GIRLS

THE BISHOP'S SCHOOL

LA JOLLA, CALIFORNIA

An Episcopal school for girls. College preparatory. Grade 7, day only . . . grades 8 through 12, resident and day. Send for illustrated catalog.

CASTILLEJA SCHOOL

Founded by Mary Lockey, '02, in 1907
A Day and Resident School for Girls
GRADES 7–12
Accredited to Both Eastern & Western Universities
Member of California Association of Independent Secondary Schools
Margarita Espinosa, '27, Principal
PALO ALTO — CALIFORNIA

CRYSTAL SPRINGS SCHOOL

A Day School for Girls. Grades 7 through 12. College Preparatory courses only. Advanced Placement Programs for superior students. Junior Scholastic Aptitude Test required for Admission.
Adele Strogen, B.S. Boston University, M.A. Columbia University, Graduate Study Stanford University, Assistant Dean of Women Stanford (1947–57) Headmistress
281 Sierra Drive — Phone DI 2-4175
HILLSBOROUGH, CALIFORNIA

COEDUCATIONAL SCHOOLS

The Orme School

ON THE QUARTER CIRCLE V BAR RANCH

(Coeducational—Grades 7 through 12)

An accredited college preparatory school in a ranch setting. Accelerated and advanced placement programs. Graduates successful in leading colleges and universities. The school-ranch combination develops well balanced individuals with an appreciation of important basic values including the acceptance of and understanding of individual and community responsibility, the dignity of work, consideration for others, learning self-discipline and a consciousness of natural wonders and beauties. Outdoor program centers on interscholastic team sports competition and horsemanship.

SUMMER CAMP

Eight weeks featuring extensive horseback experience for each camper. Large swimming pool. Tennis. All crafts and sports. Camper Rodeo and Gymkhana. Motor Caravan through scenic southwest. Complete tutoring and academic program conducted by Orme School faculty.

MAYER, ARIZONA

MINNA VRANG ORME '16 — *Headmaster*
CHARLES H. ORME, JR. '41 — *Headmaster*
CHARLES H. ORME, '16 — *Admissions*
ALLAN D. HILTON '54 — *Admissions*

SUMMER CAMP FOR BOYS

BOB MATHIAS SIERRA BOYS CAMP

★ The most modern camp in California
★ Special feature—sports and physical fitness
★ Exciting camping experiences for boys, 9 to 15 years of age
★ Horses, lake, out-camping and crafts

For free brochure write:
Bob Mathias, '53 — 5465 E. Grant
Fresno, Calif. — Phone: 255-5761

WILKINS PRIVATE HIGH SCHOOL

Accredited
Preparatory to California, Stanford, and all Colleges using the accredited system.
Preparation for college board exams, West Point, Annapolis—Coeducational Summer School Classes.
RUTH WILKINS RAYMOND, Principal
Fillmore 6-5906
3636 Washington Street — San Francisco

FAMILY FORUM: *Continued*

in the U.S. and the longest 1.9 mile linear accelerator in the world.

FREDERICK P. CRANSTON JR., '50
Arcata, Calif.

JUST A NOTE of congratulation and appreciation on the January–February issue.

The enlarged and improved quality of format is attractive [with] excellent reproduction of the illustrations.

The varied facets of activities by the "Resident Stanford Family" encourages the inference that at least some of the current students are not as yet completely standardized. Entertaining in that connection is the squib about "Muzzled Students Mutter," illustrating the usual disagreement between the adventuresome young (God bless them) and the burned-fingered elders.

The article about the "dishes" was interesting and widens horizons somewhat frighteningly.

The critique by Betty Kantor of the "Pardoner's Tale" from Chaucer, I actually read through from beginning to end including the quotations. This is a rare compliment to an industrious and scholarly young lady from and about whom we should hear more in the future.

And the presentation of the business side of developing "The Farm" gives material for answering some of the sneers and queries of friends who have only a casual and in general, rather derogatory bias, on the subject.

. . . "How to Get the Business" illustrates several undesirable facets of getting and using tax money; and also the tendency of the daily newspapers and the weekly magazines of comment, galloping along to sometimes dash off a diatribe against a generally respected institution and exemplary administrators in it, on incorrect information. The resulting libel is never officially corrected, and results in just a little more public cynicism regarding such matters and tarnishes the repute of all concerned. Your page on the matter illustrated how to be both interesting and factual. It is unfortunate that the writers of the original stories in the public prints know only how to be interesting, by making scandalous charges.

Is it too much to expect of the taxpayers' employees that they acknowledge an occasional error . . . as civilians do?

Sometimes it seems that the vast taxpayers' funds handed out by small char-

CASTILLEJA SCHOOL SUMMER PROGRAM FOR GIRLS

AGES 10–14
Three Sessions of Two Weeks Each
June 24th to August 3rd
Day and Boarding Students
Art, Ceramics, Sewing, Cooking, Drama
Tennis, Swimming, Horseback Riding
1310 Bryant Street — Palo Alto, California

...ters have a tendency to inflate the ego ...it of proportion to their ethical and ac...arial capacity.

More power to you in your much ap...reciated efforts.

WALTER PRITCHARD, '17, MD '21
San Bernardino, Calif.

CONGRATULATIONS on the clear and hard-hitting editorial on page 48 of the January-February issue of the *Stanford Review*.

PAUL R. HANNA
Acting Dean
School of Education

Memories of the Church

[David Jacobson's] recent article about Stanford Memorial Church brings back memories. We came to Palo Alto in 1903 and my wife's family (the John M. Stillmans) to Stanford in '91 or '92, so we both remember the Church before and after the 1906 Quake.

Rebuilding did not start until 1913, when we both graduated. For years services were held in a small auditorium across the Quad, although "Dr. Charles" as he was known had his offices in the present vestry. He lived next door to the Stillmans, and I believe it was his idea that we be married in the rebuilt Church by him. At any rate I know that expert mosaic craftsmen were brought from Italy, and that except for the statues of the Apostles around the Sanctuary, the Church was ready for our wedding April 16, 1914.

R. F. DURYEA, '13
Palo Alto

. . . LEST THERE BE a misunderstanding, I should like to point out that the discourteous Memorial Church caretaker most certainly is not Mr. Louis Stolz, the present sexton.

During my years on campus I became a reasonably good acquaintance of Louis's. I always found him to be most courteous to all visitors and I am sure that he would have gone far out of his way not only to show the Bostonians the Church but also to tell them about its history.

When I returned to the campus after an absence of nearly five years, Louis not only remembered me but was able to call me by name.

I, for one, believe that Stanford is very fortunate to have a man of Louis Stolz's dedication in his position.

JAMES E. BANKS, '51, MS '54
U.S. Air Force Academy

Mr. Jacobson replies: It was probably a mistake not to have made it clear in the column that I was not talking about Louis Stolz, whom I, too, have known and admired for a long time. It did cross my mind at the time, but I thought the expression "Many years ago" would make this clear . . .

OUR OWN MAKE TROPICALS
in our traditional 3-button style,
and our distinctive 2-button model

The handsome suitings in these lightweight tropicals are woven exclusively for us, in designs and colorings of our selection...and the suits themselves reflect the workmanship and detailing of our expert tailors. You may select from our classic 3-button model, or our distinctive 2-button style that has a more tailored look and gives slimmer lines. Coat and trousers.

Our Own Make Tropicals. English Worsted, $125;
Dacron® Polyester and Worsted, $110

Also our "346" tropical suits, made to our exacting specifications, $80

Prices slightly higher west of the Rockies.

ESTABLISHED 1818

Brooks Brothers
CLOTHING
Men's Furnishings, Hats & Shoes

201 POST ST., COR. GRANT AVE., SAN FRANCISCO 8, CAL.
727 WEST SEVENTH STREET, LOS ANGELES 17, CAL.
NEW YORK • BOSTON • PITTSBURGH • CHICAGO

February 28, 1963

Dear Mr. Caplan . . .

DAVE JACOBSON

THAT WAS such a nice, friendly letter you wrote me early in January! I'm sorry I've been so slow in answering, but you said it would be all right if I responded by April 15.

It was good of you to let me answer by letter (and check), instead of making me respond in person. You'll recall that's what Augustus Caesar's tax collector made Joseph and Mary do. If you did that, I'd bet beds would be scarcer in Washington than they were in Bethlehem.

You must get quite a charge out of your job. I guess no other person in all history ever wrote to so many people at one time, got so many answers—and so much money. Speaking of money, one of the reasons I was so slow in replying was that I had to scratch around a bit to get all the dollars you asked for. Besides, I like to hang on to my dollars as long as I can.

You see, when I send them to you, I sort of lose control of them. That's not your fault, I know, but it's so. It's not that I'm unwilling to pay taxes that will be used to do things for me and others. It's just that I'm awfully old-fashioned and think of taxes as trust money sort of—money I (we) entrust to public servants to spend for the things we want and need done for the good of all of us.

The trouble seems to be that the servants all too often don't listen to me and are always telling me, at my expense, what they think is good for me. So many are yelling at them I suppose they can't hear me.

Now they're fussing about taxes again. No one knows how the squabble will end. But those of us whose objects of belief and (voluntary—not compulsory) support of what your boss man says is of paramount importance to the country—higher education—hope that our public servants will not discourage nor make it too difficult to do what he and we want—by freewill offerings of dollars you won't have to handle.

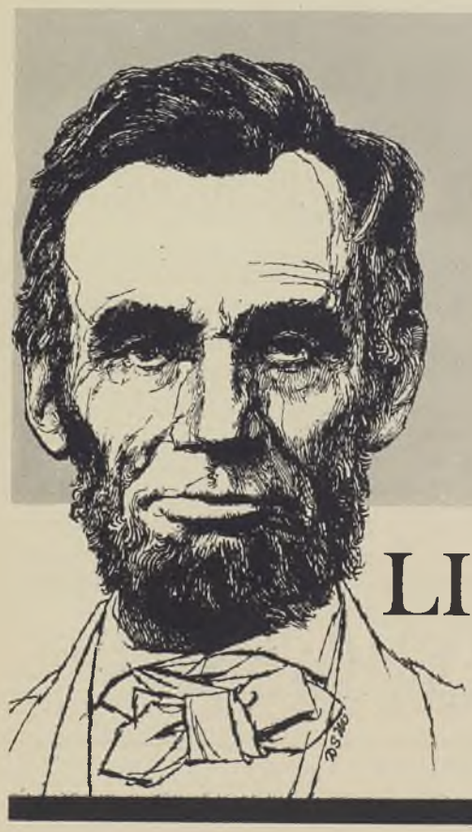
On the other hand, I hope those who believe in their Alma Mater won't forego nourishing her this year because the loaf or slice or crust they will wish to proffer next year *might* be a bit smaller or thinner. "Let's not picnic today, it just *might* rain tomorrow," doesn't make sense to me.

Finally, looking backward history tells me, and looking forward faith and confidence tell me, whatever the obstacle, Alma . . . . Mater—Ecclesium—Museum—whatever—does not live by *tax* incentive alone. Our faith, and support, shall keep them strong and free.

Sincerely,

David S Jacobson

GENERAL SECRETARY



"I believe . . . that every man may receive at least a moderate education, and thereby be enabled to read the histories of his own and other countries, by which he may appreciate the value of our free institutions."

Abraham Lincoln

LINCOLN SAVINGS

and Loan Association

630 West Sixth Street, Los Angeles 17, California

Thomas P. Pike, Director . . . . . '31
Benjamin S. Crocker, Director . . . . . Law '58
R. Dudley Hoover, Assistant Vice President . . . . . '55

NEW ENGLAND LIFE'S GORDON T. HAY,JR. (NORWICH UNIVERSITY '49), WITH HIS CLIENT, DAVID W. AMBROSE (HARVARD '48; L.L.B. BOSTON UNIVERSITY '52), REAL ESTATE MANAGER OF C. A. CROSS CO. FITCHBURG, MASS., A WHOLESALE FOOD DISTRIBUTOR, IN ONE OF THE COMPANY'S NEW "SUPER SAVE" SUPERMARKETS.

Does this man's experience in selling give you an idea?

Gordon Hay was fed up.

He had been selling for a leading petroleum company for 11 years and was making good money. Though he was successful, he wasn't satisfied.

The future bothered him. He was tired of being transferred from one city to another, and of having his quota raised every time he won a contest. Basically, he was fed up with having the Company tell him where he would live and how much he could make from one year to the next.

So in 1961 Gordon Hay joined a general agency of New England Life in Worcester, Massachusetts, an area he was familiar with and liked. Six weeks later he had sold a quarter-million dollars of life insurance. Just recently he was named to New England Life's Hall of Fame and Leaders Association.

At long last he, his wife and three children have been able to put down roots. Things look different now to Gordon Hay. "I'd break my neck to stay in this business," he says.

Does Mr. Hay's experience suggest that this can be the sort of rewarding and satisfying career you'd be interested in? If so, you can learn more about such a career as well as the particular advantages of associating with New England Life by writing to Vice President John Barker, Jr., 501 Boylston Street, Boston 17, Massachusetts.

NEW ENGLAND LIFE

NEW ENGLAND MUTUAL LIFE INSURANCE COMPANY: INDIVIDUAL AND GROUP LIFE INSURANCE, ANNUITIES AND PENSIONS, GROUP HEALTH COVERAGES.

These Stanford men are New England Life representatives:

D. Kenneth Elliott, '26, Los Angeles
Wm. Eugene Hays, CLU, '26, Gen. Agt., Boston
Rupert M. Adams, CLU, '29, Los Angeles
Patterson D. Nowell, '40, Pasadena
William B. Jadden, CLU, '41, Los Angeles
Melvin P. Gundlach, '48, Los Angeles
Jack A. Martinelli, CLU, '48, Gen. Agt., San Francisco
Robert R. Teall, CLU, '48, Orlando
Earle L. Patten, CLU, '49, Agency Manager, Fresno
W. David Phillips, '49, Fresno
Robert D. Childs, CLU, '50, Santa Ana
Joseph F. Pickering, CLU, '50, Palo Alto
David G. Hoffman, CLU, '51, Menlo Park
Joseph M. Chez, '53, Sacramento
William E. Choate, CLU, 53, Los Angeles
John C. Kern, '55, San Francisco
Robert C. Higbee, '58, San Jose

How much will taxes cost your heirs?

You can ease the "bite" of estate and inheritance taxes with a sound estate plan. Wells Fargo will be glad to work closely with you and your advisors. This booklet tells you what you should do now, helps you gather the facts you'll need when consulting your attorney. Ask at our nearest office for your copy of "6 steps to better tax planning."

WELLS FARGO BANK

FORMERLY WELLS FARGO BANK AMERICAN TRUST COMPANY

TRUST DEPARTMENT • 464 CALIFORNIA STREET, SAN FRANCISCO

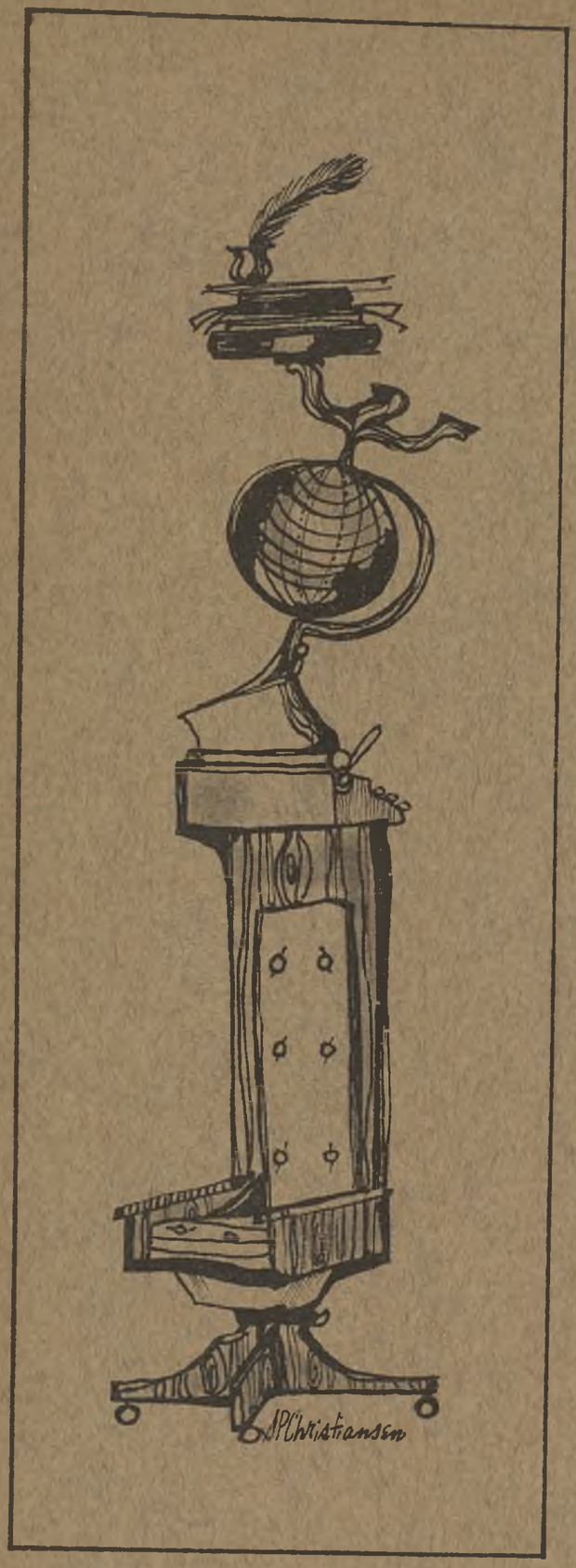
MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

Academic freedom,
to most people–including even a few
professors, perhaps–is an elusive concept.
Indeed, when we argue about it we can't always be
sure we're talking about the same things. What is it?
Why do scholars consider it essential to the pursuit of
knowledge? What, if any, are its limitations? And its
reciprocal responsibilities? The next 34 pages of
this issue are devoted to an attempt to
answer these and related questions.

Illustrations by Susan Putnam Christiansen, '60

STANFORD REVIEW

OUR FIRST ARTICLE, by Professor of Philosophy Philip H. Rhinelander, is devoted to definition and description. The next, by Professor of Chemistry Eric Hutchinson, speaks directly of our over-preoccupation with technology, but in terms of values and responsibility – thus illuminating an important (and often overlooked) facet of academic freedom. Following a 16-page special supplement issued by Editorial Projects for Education Inc., which deals with the subject in broad national terms, distinguished alumnus John W. Gardner discusses the problem of renewal in societies and men; implicitly, he describes the ultimate influence freedom of inquiry exerts on man's future.



Academi
Fre

"He who knows only his

IN ONE OF HIS BOOKS, Whitehead speaks of "the moral temper required for the pursuit of truth" (*Science and the Modern World*, Ch. XII). It is a good phrase. In another place, he refers to the "tone of mind which alone can maintain a free society," and goes on to say that "The establishment of freedom requires more than its mere intellectual defense . . . the pursuit of freedom with an intolerant mentality is self-defeating" (*Adventures of Ideas*, Ch. IV, pp. 64–5). In discussing freedom of opinion and freedom of thought—of which academic freedom is a special case—we need to recognize that we are dealing, not simply with an intellectual principle, but also with a problem of attitude, practice, and example. I shall take this as my starting point.

There are, I think, three types of attitude which may be taken toward basic disagreement when it occurs. By basic disagreement I mean a sincere difference of opinion among conscientious men on an issue of importance to both sides. The three attitudes are, broadly speaking, the following:

First, an attitude of hostility. Here it is felt that disagreement is unhealthy and should be suppressed. I shall call this the authoritarian view. An orthodoxy is assumed, and there is usually a further assumption either that the orthodox view is true and that its truth is complete and final, or that some privileged group or person has a monopoly on the discovery and promulgation of new truth which might lead to its modification. On these premises, if accepted, free inquiry and free discussion have no merit. At best, they are a waste of time; at worst, an invitation to dangerous error. Hence, all views but the orthodox are to be suppressed.

Second, there is the attitude of passive resistance. Disagreement is unhealthy, but forcible suppression involves a greater evil than permissiveness. I shall call

Freedom: Enterprise in Ideas

By Philip H. Rhinelander
Professor of Philosophy

"... of the case, knows little of that" —John Stuart Mill

this the attitude of negative or reluctant tolerance. It is reluctant and negative because disagreement is by no means approved; we bear with it—which is what the word "tolerance" etymologically implies—only because we believe the cure would be worse than the disease.

Third, there is an attitude of receptiveness. Here disagreement is viewed as a natural and necessary step in the pursuit of knowledge and understanding. There is an underlying conviction that neither our knowledge nor our understanding can ever be said to be perfect—that is to say, finished beyond the possibility of improvement. This I shall speak of as positive tolerance. If we take this attitude, we no longer deplore disagreement. We may find particular controversies annoying, uncomfortable, or even dangerous, but we believe that in the long run the existence of diversity and difference is healthy and constructive.

I propose, for present purposes, to disregard the first or "authoritarian" attitude, not because I think it unimportant, but because its evils have been often discussed, and the underlying issues are pretty well recognized. I think we may assume that the vast and responsible majority of citizens in a free society would be opposed to the obliteration of minority opinions by force and violence. We do not, in the Western democracies, support the burning of heretics or the liquidation of political dissenters by a firing squad. Our pressing problems today arise, I believe, rather from failing to distinguish between the second and third types of attitude which I have mentioned—the two kinds of "tolerance," which I have called negative and positive. I should like, therefore, to develop this distinction.

Let me concede that the phraseology I have chosen is unhappy. To speak of *negative* tolerance ond *positive* tolerance is awkward and possibly confusing. Yet something is gained by calling attention to the fact that a confusion exists. There seems to be no word, at least I know of none, by which to designate what I have called "positive tolerance." The word tolerance itself is customarily used to refer indifferently to both attitudes, without distinction. I believe that some of the difficulties which cloud the subject of free speech in general, and academic freedom in particular, stem from this source. We talk of "tolerance" but fail to see that the difference between positive and negative tolerance may be greater in some aspects than the difference between negative tolerance and authoritarianism.

Most of us, if we are candid with ourselves, would have to admit that our tolerance tends in practice to be reluctant and negative rather than positive. How often, for example, do we say (or think privately) that in a social gathering we should avoid discussion of "controversial" topics, like religion or sensitive political issues? Why? Because we dislike fundamental disagreement. We steer away from it, except as a purely intellectual exercise to be performed in the safety of the classroom.

We believe that, among friends, serious differences of opinion should be buried. We believe—and all too often we are right—that arguments over such topics tend to generate more heat than light, that they are more apt to be polemical than inquiring. If my neighbor disagrees with me on a matter of religion or about the United Nations or the John Birch Society or the House Committee on Un-American Activities, I tend to stay off the subject when I meet him, or if I get involved in a discussion, my aim is rather to prove him wrong than to see if by chance I may learn something from him.

The fact is that although we may assent *intellectu-*

ally to the propositions that freedom of speech and opinion is a fundamental right, that knowledge advances through the clash of divergent views, and that differences of opinion are important to a free society—which have become established as almost clichés—our *attitude* toward disagreement seldom matches our professed beliefs. If we *really* believed what we claim to believe, we should welcome sincere disagreement as a chance to sharpen our own views and perhaps to extend our knowledge. In general, however, we tend to prefer the company of those who agree with us already and whose opinions we expect to corroborate our own. We bear with disagreement when we must, but we do not welcome it.

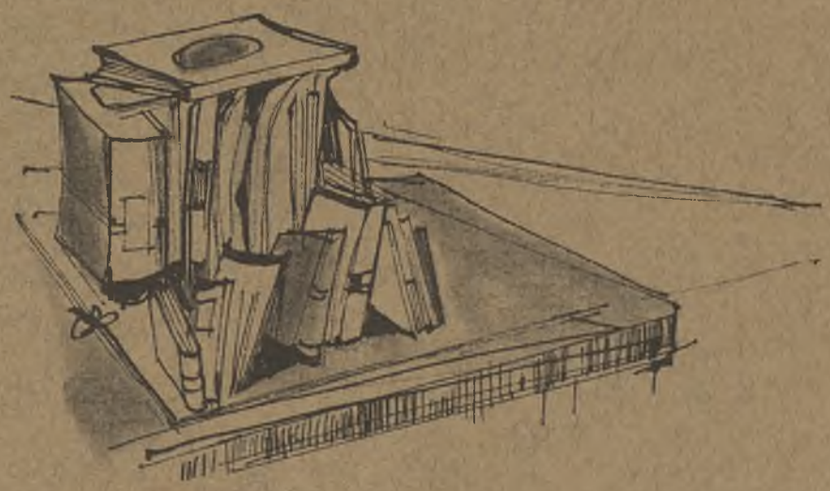
This is a far cry from positive tolerance, as I have defined it. The lag is due partly to historical factors. Even a cursory glance at the influences which led to the ultimate acceptance of "toleration" in the Western world as one of the principles of a free society will show, I think, that the negative factors were predominant.

Religious toleration, for example, came to be accepted not because it was believed that religious differences might lead to new insights, but because of a growing reaction against the horrors, the injustice, and the futility of religious wars and religious persecutions. By the believers it came to be recognized that there was something hypocritical in torturing men in the name of a God of love; something paradoxical in trying to extort by force a confession of faith which could be valid only if given voluntarily; something illogical in assuming that an all-powerful God required the aid of human executioners to vindicate His omnipotence. To the skeptically minded, at the same time, it seemed that the underlying controversies were beyond resolution in any case, and not worth serious attention, let alone bitterness and bloodshed.

The spirit of toleration, as it first spread through the Western world, did not reflect any general change of attitude toward disagreement as such. Disagreement was still unwelcome—which is the reason, I believe, why persecuted minorities so often turned intolerant on their own account when they came into positions of power.

What had happened was that people generally had become disillusioned about the efficacy of force as a means of settling disagreement of this sort. Differences of opinion came to be accepted as a regrettable fact of life—a perversity of human nature—to be resolved where possible, but in the last resort, to be bravely borne. This is what the word "tolerance" implies in its original and etymological sense. The merely tolerant man, in the strict sense of the word, does not welcome disagreement. He endures it, and counts his patience as a virtue.

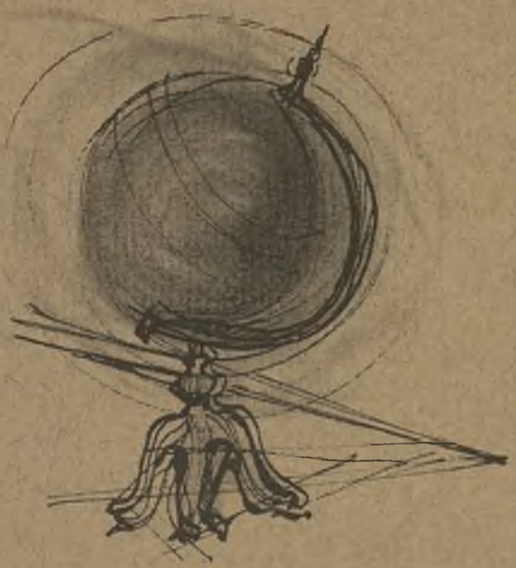
One who believes *intellectually* in academic freedom, but whose *attitude* is one of negative tolerance, will react differently in a given situation from the man who shares the same beliefs, but whose attitude toward disagreement is positive. The former tends to resolve doubtful cases one way; the latter tends to resolve doubtful cases the opposite way. And where the former, if he makes a difficult decision upholding freedom, may tend to be apologetic and to see himself as one who has endured much for the sake of a harsh but



necessary principle, the other will see no reason to be defensive or apologetic, because his beliefs and his attitude reinforce each other instead of pulling in opposite directions.

Between these extremes there is room for a variety of intermediate attitudes, and I suspect that each of us shifts more or less from one to another, depending on the issues involved in a particular case and how our own interests happen to be affected under the particular circumstances.

The point I wish to make is that the effective maintenance and defense of academic freedom requires more than tolerance in the negative sense. It requires not merely a conviction that the forcible suppression of unorthodox opinion is an evil, but the further conviction that unorthodoxy is on the whole a positive good. Tolerance in the negative sense gives only a half-hearted basis for academic freedom—which is why the public at large, which tends to be negatively tolerant, so often fails to see any sense in academic freedom. To the man in the street, academic freedom means—as Dean Jones of Yale put it some years ago in whimsical fashion—the privilege which professors assume of saying what they think without thinking what they say. We wouldn't shoot a man today for holding unorthodox opinions, but why let him teach? The major assumption here is the same as the assumption behind the authoritarian view—namely, that unorthodox opinions are pernicious. Once you grant this assumption, the difference between the authoritarian attitude and the merely tolerant attitude turns chiefly on remedies and penalties. This is a vital difference, to be sure. But at this stage, unorthodoxy is still unwelcome.



HISTORICALLY there are three aspects, broadly speaking, of academic freedom. One concerns the freedom of the university as an institution to set its curriculum and conduct its own affairs without external interference. The second involves the freedom of the student. The third concerns the freedom of the individual faculty member to inquire, to form opinions, and to report his findings and opinions both to his students and outside the classroom. I shall concentrate on the third aspect, which is the one most commonly involved in discussions of academic freedom at the present day.

It is only within the last hundred years that academic freedom, as it relates specifically to the freedom of the individual scholar and teacher, has come to be recognized as having a special status beyond the general principles of free speech as they apply to the public at large. It would be quite wrong to think of the Medieval universities or those of the Renaissance or even the Enlightenment as bastions of academic freedom in this sense. Some of them were, at some periods—for instance, the University of Leiden from 1575 to 1676. But in general, the chief concern of the European universities from their founding until well into the 19th century was to preserve their own institutional autonomy against ecclesiastical or secular authority. In this struggle, universities were often unsuccessful.

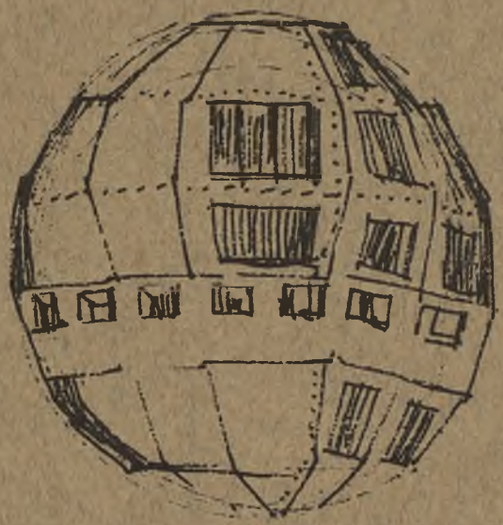
As regards members of their own faculties, however, there was little, if any, consistent effort by the universities to protect the scholar who held unorthodox opinions. On the contrary, through the Renaissance and down at least until the 18th century, the European universities were, on the whole, arrayed firmly on the side of traditional authority, of theology, and of orthodox dogma. The great advances, not only in the sciences but in the world of arts, letters, and philosophy during this period, were made almost entirely by men working outside the universities.

A similar pattern obtained in the United States prior to the Civil War. In the colonial colleges, the dominant influences were religious, conservative, and traditional. A kind of doctrinaire moralism was prevalent. There was a strong sectarian commitment in many institutions. So far as there was any tolerance at all for unorthodox opinions, it was imposed more by the fortuitous and temporary convergence or opposition of local pressure groups than by considerations of principle. When Dunster, the first president of Harvard, was obliged to resign in 1654, it was primarily because he held unacceptable views on the validity of infant baptism (S. E. Morison, *Three Centuries of Harvard*, pp. 18–19; R. Hofstadter, *Academic Freedom in the Age of the College*, 86–91). The community was disappointed, but no one questioned the action's propriety.

Until well into the 19th century, furthermore, the prevailing emphasis in (*Continued on page 49*)

TECHNOLOGY Is Not Enough

By Eric Hutchinson
Professor of Chemistry



This article is adapted from Dr. Hutchinson's Stanford Conference lecture which carried the same title.

WHAT DO YOU WANT for your child—education or training? Do you want the coming generation to be one of educated young people or of technologists? Your answers are important to you—as alumni and as parents—at a time when your university strives for (and, I believe, comes within striking distance of achieving) that degree of pre-eminence and prestige which makes it likely that many of the future leaders of our nation are in the ranks of our undergraduates. All of this raises the question: what are universities for?

Traditionally universities have exercised a threefold function. They have been the repositories of mankind's accumulated knowledge; they have provided a working space for those who are increasing man's knowledge; they have, in the best cases, served as the means whereby, from the first two functions, standards of values are extracted and transmitted to young students. To carry out the first function, universities build libraries and professors write books; to carry out the second, universities hire scholars whose special talents lie in research; and to carry out the third, nurture the humanities through which, in science as well as in the arts, the often starkly original ideas of the researchers are assimilated, evaluated, and then transmitted to the coming generation.

Looking at many institutions right now, you might be persuaded that the second of these three functions so overshadows the other two that universities are to a large extent places where the faculty compete for the governmental or foundation dollar to spend on ways of pushing back the boundaries of knowledge. This, in large measure, they are. And, looking more closely at the fate of the governmental dollar, you might be persuaded that many institutions are almost exclusively concerned with pushing back the boundaries of knowledge in the physical and medical sciences. This conclusion, also, is pretty well justified. Indeed, in these days it is difficult for a physical scientist to *avoid* having fairly large sums of money for research. There is, after all, a good deal of money available, and if he does not acquire some of it for himself the physical scientist is apt to find that he is raising questions as to his keenness and value in the minds of his colleagues and superiors.

Why are such large sums available? Why is this wealth contributed by a nation of heavily burdened taxpayers? It would be comforting to think that it is because as a nation we are interested in scientific endeavor, yet this is hard to believe. The government, which raises and dispenses the monies, is explicitly not interested in pushing back the boundaries of scientific knowledge for their own sake. One must conclude with some bitterness, I believe, that baser motives of self-interest are involved; that, quite literally, knowledge is power (though, sadly, it does not necessarily breed wisdom); that in the medical and physical sciences the gap between new knowledge uncovered by scholars and the technological advantage to be gained by its application is so much smaller than in any other area of human activity that investment in these power-producing activities yields a quick return. Prior to World War II it used to be said that there was a 15-year gap between what went on in academic chemistry laboratories and what emerged from the chemical industries. In some cases today the gap is less than a year.

It can be argued, of course, that the fruits of scholarship ought to be enjoyed as quickly as possible, especially when the public is bearing the cost. This is no doubt true, but it seems to me that the serious narrowing of the gap between science and its technological fruit imposes on universities a strain which they may not be equipped to withstand. I am well aware of the obligation laid on academic institutions of contributing to the country's needs, which because of geopolitical conditions are today largely technological, but universities have a major stake in *deciding* what a country's real needs are. Preoccupation with the technological fruits of science may destroy science as I shall define it. It takes no discerning eye to perceive that in universities today the skill of proposalsmanship is highly developed—indeed, promotion may depend on this skill. Many professors apply for funds in large amounts not because the proposed scientific problems are in themselves particularly interesting or important, but because the Pentagon or some other agency of the government is "hot" on a given technological topic. I have met some professors who carefully watch the vital statistics of our congressmen and adjust research proposals to meet the fashion. If a senator dies of leukemia this year it is very likely that increased funds will be available for study in this area next year.

BUT THIS is faculty weakness, you say, and professors should not allow themselves to fall into the trap of expediency. Doubtless they should not, but professors are as subject as you or the next man to the subtle, and not so subtle, pressures of colleagues, academic superiors, and government bureaus.

Perhaps I am being too alarmist about the intrusion of technology into universities. If so, you must ascribe it to my deep love of science and my concern for human values, which I see as increasingly threatened in today's society. I hardly know which is the more appropriate statement: to say that as a people we Americans are enamored of science, or that we are infatuated by it. Perhaps, in fact, neither statement is correct. Perhaps it would be more accurate to say that we are frantically wooing science, viewing science as the necessary precursor to powerful (*Continued on page 45*)

Educators rightly place high value on, and fiercely defend, academic freedom. But this freedom is only one of a group that includes also political, economic, religious, and personal freedoms. If any falls, the others will eventually be destroyed. —DWIGHT D. EISENHOWER

People Who Live in Glass Houses Shouldn't Get Stoned

PROFESSORS live in glass houses, and the shades are always up. Watch one long enough and he's sure to do something you don't like, because *genus scholasticus* is a compulsive rock-tosser. The pebbles he casts are pellets of doubt; his targets are ignorance and error; the belief he dents may be your own.

Even if he never errs, and that's unlikely, he'll draw a withering return fire—some of it, perhaps, from fellow professors. Every false premise has its partisans, sometimes in the highest intellectual circles. So he's certain to get stoned, in at least the slangless definition of that term. (If, in depression and frustration, he chooses to add a second dimension of meaning, it's a matter of personal taste.) So, since his castle has fragile walls, the scholar needs the best in glass insurance. The name of his policy is academic freedom.

Instead of asking what's so special about professors that they should be granted this special coverage, let's turn the question around and ask: what's so special about this protective cloak of academic freedom, that professors should be so eager to wrap themselves in it?

The cloak is a reversible garment. Worn one way, it covers him while he works—in the classroom, the laboratory, the library. Turned the other way it clothes him during his off-duty hours.

But every American has a shielding garment, woven of thread from the Bill of Rights and its supporting statutes. Any professional man who meets the ethical standards prescribed by law and by his profession may conduct his affairs as he sees fit. Doctors who disagree with their professional organization over how best to provide medical care for the elderly are not stripped of their scalpels and stethoscopes. When a judge's decision is reversed by a higher court he is not defrocked.

The laborer, outside of working hours, may support public policies his employer detests, and keep his job.

The scholar's difference from the rest of us lies less in his protection than in what he does and in the immediate and lasting consequences his actions may have. Instinctively we are wary of any man who questions our past, or seeks to alter our future. Yet without free and constant interplay of ideas, and their transmission to our children, our fate is stagnation and retrogression. Of this we are also instinctively aware.

So, usually, we manage to muster at least the minimum level of tolerance academic freedom must have.

Some say tolerance should have no limits. They are like the motorist who stops at every filling station to insure an ever-brimming tank, never asking the price. Others put in just enough to go from one station to the next, carefully counting out payment in pennies.

Most of us fill the tank when we see it's low, then forget it for awhile. Sometimes we run out of gas.

SEEMINGLY our most popular attitude gives what might be called pragmatic tolerance: in advance of application we can never be quite sure which idea is valid and which is inane; some that seemed silliest have proved to have the greatest value. Even when convinced that an idea is bad we hesitate to suppress it, not from doubt of our own judgment but from fear of the precedent thus set. Our refuge is a kind of Darwinian attitude toward ideas. We trust that the fittest will indeed survive. This involves risk, but less than even the most careful attempts at pre-screening. Such a view is buttressed by history, which tells us that even a bad idea seldom does any great harm—*unless it is imposed on people by force.*

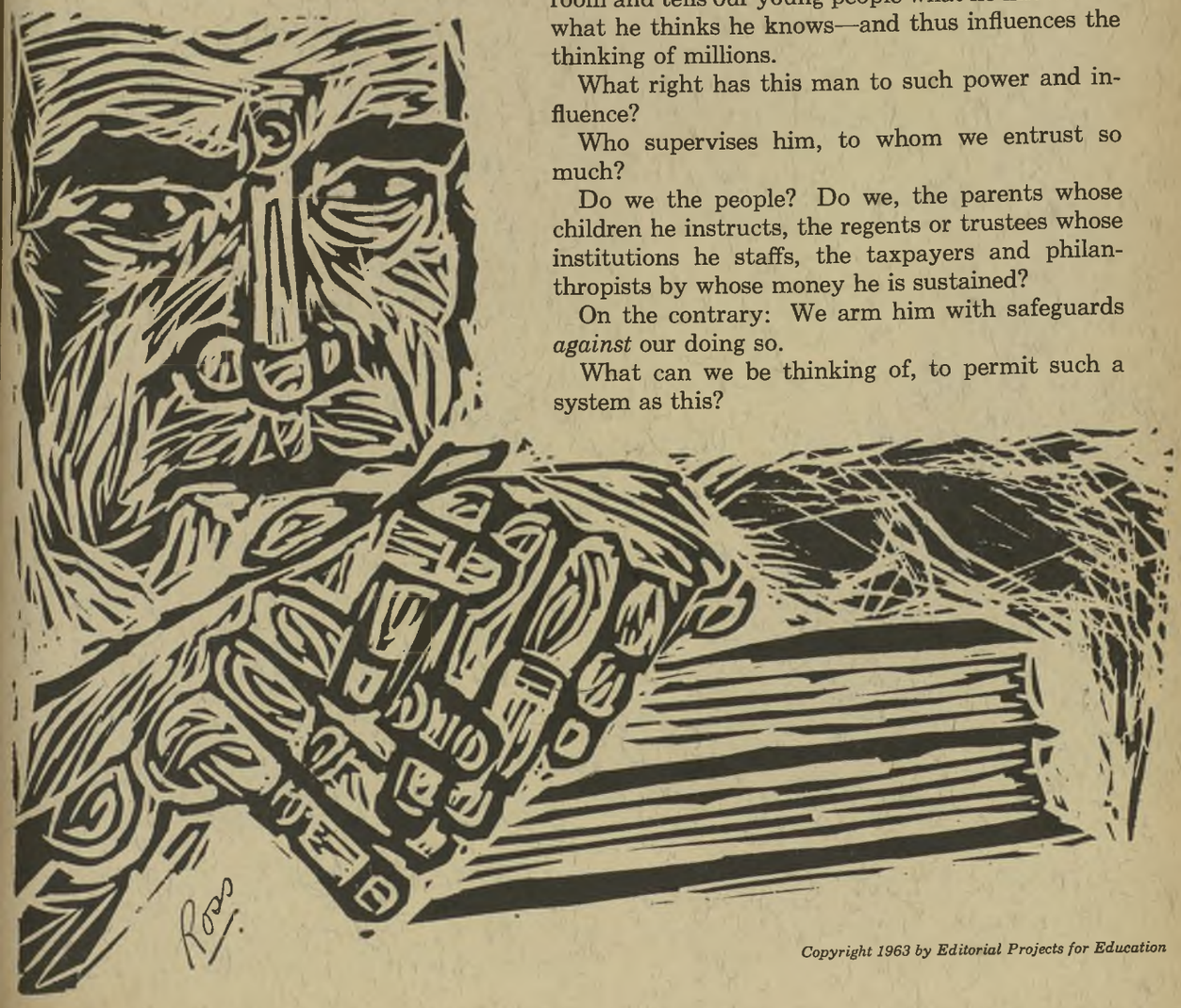
Practically anyone, at one time or another, will become sufficiently aroused to fire a brickbat at some particularly offensive glass house. But most of the time most of us concentrate, not on eliminating or punishing heresy, but on preventing *any* authority from *requiring* us to embrace *any* set of beliefs—good *or* bad.

Of course any coin has two sides, and the one that says Freedom on the front says Responsibility on the back. That's the import of General Eisenhower's words at the top of this page (uttered at UCLA's 1963 Charter Day ceremony).

All through the ages scholars have made mistakes. Being human, they make them today. But, in the broad sense, the only mistake that can never be rectified is the one that would bar us from rectifying our mistakes. The only safeguard is responsibility toward *all* freedom. In spite of their stumbles, fumbles, and tumbles, one can't think of any group discharging this responsibility in higher degree than is the academic community.

Dan Endsley

WHAT RIGHT HAS THIS MAN...



HE HOLDS a position of power equaled by few occupations in our society.

His influence upon the rest of us—and upon our children—is enormous.

His place in society is so critical that no totalitarian state would (or does) trust him fully. Yet in our country his fellow citizens grant him a greater degree of freedom than they grant even to themselves.

He is a college teacher. It would be difficult to exaggerate the power that he holds.

- He originates a large part of our society's new ideas and knowledge.
- He is the interpreter and disseminator of the knowledge we have inherited from the past.
- He makes discoveries in science that can both kill us and heal us.
- He develops theories that can change our economics, our politics, our social structures.
- As the custodian, discoverer, challenger, tester, and interpreter of knowledge he then enters a classroom and tells our young people what he knows—or what he thinks he knows—and thus influences the thinking of millions.

What right has this man to such power and influence?

Who supervises him, to whom we entrust so much?

Do we the people? Do we, the parents whose children he instructs, the regents or trustees whose institutions he staffs, the taxpayers and philanthropists by whose money he is sustained?

On the contrary: We arm him with safeguards *against* our doing so.

What can we be thinking of, to permit such a system as this?

Copyright 1963 by Editorial Projects for Education

Having ideas, and disseminating them, is a risky business. It has always been so—and therein lies a strange paradox. The march of civilization has been quick or slow in direct ratio to the production, testing, and acceptance of ideas; yet virtually all great ideas were opposed when they were introduced. Their authors and teachers have been censured, ostracized, exiled, martyred, and crucified—

usually because the ideas clashed with an accepted set of beliefs or prejudices or with the interests of a ruler or privileged class.

Are we wiser and more receptive to ideas today? Even in the Western world, although methods of punishment have been refined, the propagator of a new idea may find himself risking his social status, his political acceptability, his job, and hence his very livelihood.

For the teacher: special risks, special rights

NORMALLY, in our society, we are wary of persons whose positions give them an opportunity to exert unusual power and influence.

But we grant the college teacher a degree of freedom far greater than most of the rest of us enjoy.

Our reasoning comes from a basic fact about our civilization:

Its vitality flows from, and is sustained by, *ideas*.

Ideas in science, ideas in medicine, ideas in politics. Ideas that sometimes rub people the wrong way. Ideas that at times seem pointless. Ideas that may alarm, when first broached. Ideas that may be so novel or revolutionary that some persons may propose that they be suppressed. Ideas—all sorts—that provide the sinews of our civilization.

They will be disturbing. Often they will irritate.

But the more freely they are produced—and the more rigorously they are tested—the more surely will our civilization stay alive.

THIS IS THE THEORY. Applying it, man has developed institutions for the specific purpose of incubating, nourishing, evaluating, and spreading ideas. They are our colleges and universities. As their function is unique, so is the responsibility with which we charge the man or woman who staffs them.

We give the college teacher the professional duty of pursuing knowledge—and of conveying it to others—with complete honesty and open-mindedness. We tell him to find errors in what we now know. We tell him to plug the gaps in it. We tell him to add new material to it.

We tell him to do these things without fear of the consequences and without favor to any interest save the pursuit of truth.

We know—and he knows—that to meet this responsibility may entail risk for the college teacher. The knowledge that he develops and then teaches to others will frequently produce ground-shaking results.

It will lead at times to weapons that at the press of a button can erase human lives. Conversely, it will lead at other times to medical miracles that will *save* human lives. It may unsettle theology, as did Darwinian biology in the late 1800's, and as did countless other discoveries in earlier centuries. Conversely, it may confirm or strengthen the elements of one's faith. It will produce intensely personal results: the loss of a job to automation or, conversely, the creation of a job in a new industry.

Dealing in ideas, the teacher may be subjected to strong, and at times bitter, criticism. It may come from unexpected quarters: even the man or woman who is well aware that free research and education are essential to the common good may become understandably upset when free research and education affect his own livelihood, his own customs, his own beliefs.

And, under stress, the critics may attempt to coerce the teacher. The twentieth century has its own versions of past centuries' persecutions: social ostracism for the scholar, the withdrawal of financial support, the threat of political sanctions, an attempt to deprive the teacher of his job.

Wherever coercion has been widely applied—in Nazi Germany, in the Soviet Union—the development of ideas has been seriously curtailed. Were

such coercion to succeed here, the very sinews of our civilization would be weakened, leaving us without strength.

WE RECOGNIZE these facts. So we have developed special safeguards for ideas, by developing special safeguards for him who fosters ideas: the college teacher.

We have developed these safeguards in the calm (and civilized) realization that they are safeguards against our own impetuousness in times of stress. They are a declaration of our willingness to risk the consequences of the scholar's quest for truth. They are, in short, an expression of our belief that we should seek the truth because the truth, in time, shall make us free.

What the teacher's special rights consist of

THE SPECIAL FREEDOM that we grant to a college teacher goes beyond anything guaranteed by law or constitution.

As a citizen like the rest of us, he has the right to speak critically or unpopularly without fear of governmental reprisal or restraint.

As a teacher enjoying a *special* freedom, however, he has the right to speak without restraint not only from government but from almost any other source, including his own employer.

Thus—although he draws his salary from a college or university, holds his title in a college or university, and does his work at a college or university—he has an independence from his employer which in most other occupations would be denied to him.

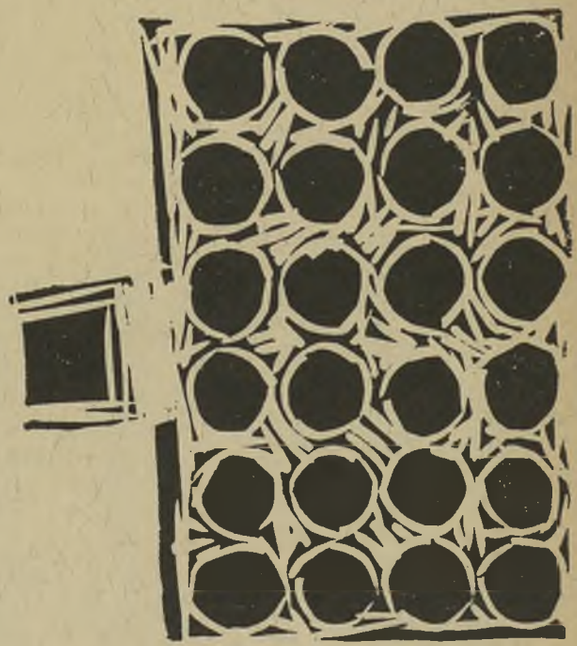
Here are some of the rights he enjoys:

- He may, if his honest thinking dictates, expound views that clash with those held by the vast majority of his fellow countrymen. He will not be restrained from doing so.
- He may, if his honest thinking dictates, publicly challenge the findings of his closest colleagues, even if they outrank him. He will not be restrained from doing so.
- He may, if his honest thinking dictates, make statements that oppose the views of the president of his college, or of a prominent trustee, or of a generous benefactor, or of the leaders of the state legislature. No matter how much pain he may bring to such persons, or to the college administrators entrusted with maintaining good relations with them, he will not be restrained from doing so.

Such freedom is not written into law. It exists on the college campus because (1) the teacher claims and enforces it and (2) the public, although wincing on occasion, grants the validity of the teacher's claim.

WE GRANT the teacher this special freedom for our own benefit.

Although "orthodox" critics of education frequently protest, there is a strong experimental emphasis in college teaching in this country. This emphasis owes its existence to several influences, including the utilitarian nature of our society; it is one of the ways in which our institu-



tions of higher education differ from many in Europe.

Hence we often measure the effectiveness of our colleges and universities by a pragmatic yardstick: Does our society derive a practical benefit from their practices?

The teacher's special freedom meets this test. The unfettered mind, searching for truth in science, in philosophy, in social sciences, in engineering, in professional areas—and then teaching the findings to millions—has produced impressive practical results, whether or not these were the original objectives of its search:

The technology that produced instruments of victory in World War II. The sciences that have produced, in a matter of decades, incredible gains in man's struggle against disease. The science and engineering that have taken us across the threshold of outer space. The dazzling progress in agricultural productivity. The damping, to an unprecedented degree, of wild fluctuations in the business cycle. The appearance and application of a new architecture. The development of a "scientific approach" in the management of business and of labor unions. The ever-increasing maturity and power of our historians, literary critics, and poets. The graduation of hundreds of thousands of college-trained men and women with the wit and skill to learn and broaden and apply these things.

Would similar results have been possible without campus freedom? In moments of national panic (as when the Russians appear to be outdistancing us in the space race), there are voices that suggest that less freedom and more centralized direction of our educational and research resources would be more "efficient." Disregard, for a moment, the fact that such contentions display an appalling ignorance and indifference about the fundamental philosophies of freedom, and answer them on their own ground. Weighed carefully, the evidence seems generally to support the contrary view. Freedom does work—quite practically.

Many point out that there are even more important reasons for supporting the teacher's special freedom than its practical benefits. Says one such person, the conservative writer Russell Kirk:

"I do not believe that academic freedom deserves preservation chiefly because it 'serves the community,' although this incidental function is important. I think, rather, that the principal importance of academic freedom is the opportunity it affords for the highest development of private reason and imagination, the improvement of mind and heart by the apprehension of Truth, whether or not that development is of any immediate use to 'democratic society'."

The conclusion, however, is the same, whether the reasoning is conducted on practical, philosophical, or religious grounds—or on all three: The unusual freedom claimed by (and accorded to) the college teacher is strongly justified.

"This freedom is immediately applicable only to a limited number of individuals," says the statement of principles of a professors' organization, "but it is profoundly important for the public at large. It safeguards the methods by which we explore the unknown and test the accepted. It may afford a key to open the way to remedies for bodily or social ills, or it may confirm our faith in the familiar. Its preservation is necessary if there is to be scholarship in any true sense of the word. The advantages accrue as much to the public as to the scholars themselves."

Hence we give teachers an extension of freedom—*academic* freedom—that we give to no other group in our society: a special set of guarantees designed to encourage and insure their boldness, their forthrightness, their objectivity, and (if necessary) their criticism of us who maintain them.

The idea works most of the time, but . . .

LIKE MANY good theories, this one works for most of the time at most colleges and universities. But it is subject to continual stresses. And it suffers occasional, and sometimes spectacular, breakdowns.

If past experience can be taken as a guide, at this very moment:

▸ An alumnus is composing a letter threatening to strike his alma mater from his will unless the institution removes a professor whose views on some controversial issue—in economics? in genetics? in politics?—the alumnus finds objectionable.

▸ The president of a college or university, or one of his aides, is composing a letter to an alumnus in which he tries to explain why the institution *cannot* remove a professor whose views on some controversial issue the alumnus finds objectionable.

▸ A group of liberal legislators, aroused by reports from the campus of their state university that a professor of economics is preaching fiscal conservatism, is debating whether it should knock some sense into the university by cutting its appropriation for next year.

▸ A group of conservative legislators is aroused by reports that another professor of economics is preaching fiscal liberalism. This group, too, is considering an appropriation cut.

▸ The president of a college, faced with a budgetary crisis in his biology department, is pondering whether or not he should have a heart-to-heart chat with a teacher whose views on fallout, set forth in a letter to the local newspaper, appear to be scaring away the potential donor of at least one million dollars.

▸ The chairman of an academic department, still smarting from the criticism that two colleagues leveled at the learned paper he delivered at the departmental seminar last week, is making up the new class schedules and wondering why the two upstarts wouldn't be just the right persons for those 7 a.m. classes which increased enrollments will necessitate next year.

▸ The educational board of a religious denomination is wondering why it should continue to permit the employment, at one of the colleges under its control, of a teacher of religion who is openly questioning a doctrinal pronouncement made recently by the denomination's leadership.

▸ The managers of an industrial complex, worried by university research that reportedly is linking their product with a major health problem, are wondering how much it might cost to sponsor university research to show that their product is *not* the cause of a major health problem.

Pressures, inducements, threats: scores of examples, most of them never publicized, could be cited each year by our colleges and universities.

In addition there is philosophical opposition to the present concept of academic freedom by a few who sincerely believe it is wrong. ("In the last analysis," one such critic, William F. Buckley, Jr., once wrote, "academic freedom must mean the freedom of men and women to supervise the educational activities and aims of the schools they oversee and support.") And, considerably less important and more frequent, there is opposition by emotionalists and crackpots.

Since criticism and coercion do exist, and since academic freedom has virtually no basis in law, how can the college teacher enforce his claim to it?

In the face of pressures, how the professor stays free

IN THE mid-1800's, many professors lost their jobs over their views on slavery and secession. In the 1870's and '80's, many were dismissed for their views on evolution. Near the turn of the century, a number lost their jobs for speaking out on the issue of Free Silver.

The trend alarmed many college teachers. Until late in the last century, most teachers on this side of the Atlantic had been mere purveyors of the knowledge that others had accumulated and written down. But, beginning around 1870, many began to perform a dual function: not only did they teach, but they themselves began to investigate the world about them.

Assumption of the latter role, previously performed almost exclusively in European universities, brought a new vitality to our campuses. It also brought perils that were previously unknown. As long as they had dealt only in ideas that were classical, generally accepted, and therefore safe, teachers and the institutions of higher learning did little that might offend their governing boards, their alumni, the parents of their students, the public, and the state. But when they began to act as investigators in new areas of knowledge, they found themselves affecting the status quo and the interests of those who enjoyed and supported it.

And, as in the secession, evolution, and silver controversies, retaliation was sometimes swift.

In 1915, spurred by their growing concern over such infringements of their freedom, a group of teachers formed the American Association of University Professors. It now has 52,000 members, in the United States and Canada. For nearly half a century an AAUP committee, designated as "Committee A," has been academic freedom's most active —and most effective—defender.

THE AAUP'S defense of academic freedom is based on a set of principles that its members have developed and refined throughout the organization's history. Its current statement of these principles, composed in collaboration with the Association of American Colleges, says in part:

"Institutions of higher education are conducted for the common good and not to further the interest of either the individual teacher or the institution as a whole. The common good depends upon the free search for truth and its free exposition."

The statement spells out both the teacher's rights and his duties:

"The teacher is entitled to full freedom in research and in the publication of the results, subject to the adequate performance of his other academic duties . . .

"The teacher is entitled to freedom in the classroom in discussing his subject, but he should be careful not to introduce . . . controversial matter which has no relation to his subject . . .

"The college or university teacher is a citizen, a member of a learned profession, and an officer of an educational institution. When he speaks or writes as a citizen, he should be free from institutional censorship or discipline, but his special position in the community imposes special obligations. As a man of learning and an educational officer, he should remember that the public may judge his profession and his institution by his utterances. Hence he should at all times be accurate, should exercise appropriate restraint, should show respect for the opinions of others, and should make every effort to indicate that he is not an institutional spokesman."

HOW CAN such claims to academic freedom be enforced? How can a teacher be protected against retaliation if the truth, as he finds it and teaches it, is unpalatable to those who employ him?

The American Association of University Profes-

sors and the Association of American Colleges have formulated this answer: permanent job security, or *tenure*. After a probationary period of not more than seven years, agree the AAUP and the AAC, the teacher's services should be terminated "only for adequate cause."

If a teacher were dismissed or forced to resign simply because his teaching or research offended someone, the cause, in AAUP and AAC terms, clearly would not be adequate.

The teacher's recourse? He may appeal to the AAUP, which first tries to mediate the dispute without publicity. Failing such settlement, the AAUP conducts a full investigation, resulting in a full report to Committee A. If a violation of academic freedom and tenure is found to have occurred, the committee publishes its findings in the association's *Bulletin*, takes the case to the AAUP membership, and often asks that the offending college or university administration be censured.

So effective is an AAUP vote of censure that most college administrators will go to great lengths to avoid it. Although the AAUP does not engage in boycotts, many of its members, as well as others in the academic profession, will not accept jobs in censured institutions. Donors of funds, including many philanthropic foundations, undoubtedly are influenced; so are many parents, students, alumni, and present faculty members. Other organizations, such as the American Association of University Women, will not recognize a college on the AAUP's censure list.

As the present academic year began, eleven institutions were on the AAUP's list of censured administrations. Charges of infringements of academic freedom or tenure were being investigated on fourteen other campuses. In the past three years, seven institutions, having corrected the situations which had led to AAUP action, have been removed from the censure category.

Has the teacher's freedom no limitations?

HOW SWEEPING is the freedom that the college teacher claims?

Does it, for example, entitle a member of the faculty of a church-supported college or university openly to question the existence of God?

Does it, for example, entitle a professor of botany to use his classroom for the promulgation of political beliefs?

Does it, for example, apply to a Communist?

There are those who would answer some, or all, such questions with an unqualified Yes. They would argue that academic freedom is absolute. They would say that any restriction, however it may be rationalized, effectively negates the entire academic-freedom concept. "You are either free or not free," says one. "There are no halfway freedoms."

There are others—the American Association of University Professors among them—who say that freedom *can* be limited in some instances and, by definition, *is* limited in others, without fatal damage being done.

Restrictions at church-supported colleges and universities

The AAUP-AAC statement of principles of academic freedom implicitly allows religious restrictions:

"Limitations of academic freedom because of religious or other aims of the institution should be clearly stated in writing at the time of [the teacher's] appointment . . ."

Here is how one church-related university (Prot-

estant) states such a "limitation" to its faculty members:

"Since X University is a Christian institution supported by a religious denomination, a member of its faculty is expected to be in sympathy with the university's primary objective—to educate its students within the framework of a Christian culture. The rights and privileges of the instructor should, therefore, be exercised with discretion and a sense of loyalty to the supporting institution . . . The right of dissent is a correlative of the right of assent. Any undue restriction upon an instructor in the exercise of this function would foster a suspicion of intolerance, degrade the university, and set the supporting denomination in a false light before the world."

Another church-related institution (Roman Catholic) tells its teachers:

"While Y College is operated under Catholic auspices, there is no regulation which requires all members of the faculty to be members of the Catholic faith. A faculty member is expected to maintain a standard of life and conduct consistent with the philosophy and objectives of the college. Accordingly, the integrity of the college requires that all faculty members shall maintain a sympathetic attitude toward Catholic beliefs and practices, and shall make a sincere effort to appreciate these beliefs and practices. Members of the faculty who are Catholic are expected to set a good example by the regular practice of Catholic duties."

A teacher's "competence"

By most definitions of academic freedom, a teacher's rights in the classroom apply only to the field in which he is professionally an expert, as determined by the credentials he possesses. They do not extend to subjects that are foreign to his specialty.

". . . He should be careful," says the American Association of University Professors and the Association of American Colleges, "not to introduce into his teaching controversial matter which has no relation to his subject."

Hence a professor of botany enjoys an undoubted freedom to expound his botanical knowledge, however controversial it might be. (He might discover, and teach, that some widely consumed cereal grain, known for its energy-giving properties, actually is of little value to man and animals, thus causing consternation and angry outcries in Battle Creek. No one on the campus is likely to challenge his right to do so.) He probably enjoys the right to comment, from a botanist's standpoint, upon a conservation bill pending in Congress. But the principles of academic freedom might not entitle the botanist to take

a classroom stand on, say, a bill dealing with traffic laws in his state.

As a private citizen, of course, off the college campus, he is as free as any other citizen to speak on whatever topic he chooses—and as liable to criticism of what he says. He has no special privileges when he acts outside his academic role. Indeed, the AAUP-AAC statement of principles suggests that he take special pains, when he speaks privately, not to be identified as a spokesman for his institution.

HENCE, at least in the view of the most influential of teachers' organizations, the freedom of the college teacher is less than absolute. But the limitations are established for strictly defined purposes: (1) to recognize the religious auspices of many colleges and universities and (2) to lay down certain ground rules for scholarly procedure and conduct.

In recent decades, a new question has arisen to haunt those who would define and protect academic freedom: the problem of the Communist. When it began to be apparent that the Communist was not simply a member of a political party, willing (like other political partisans) to submit to established democratic processes, the question of his eligibility to the rights of a free college teacher was seriously posed.

So pressing—and so worrisome to our colleges and universities—has this question become that a separate section of this report is devoted to it.

The Communist: a special case?

SHOULD A Communist Party member enjoy the privileges of academic freedom? Should he be permitted to hold a position on a college or university faculty?

On few questions, however "obvious" the answer may be to some persons, can complete agreement be found in a free society. In a group as conditioned to controversy and as insistent upon hard proof as are college teachers, a consensus is even more rare.

It would thus be a miracle if there were agreement on the rights of a Communist Party member to enjoy academic privileges. Indeed, the miracle has not yet come to pass. The question is still warmly debated on many campuses, even where there is not a Communist in sight. The American Association of University Professors is still in the process of defining its stand.

The difficulty, for some, lies in determining whether or not a communist teacher actually propagates his beliefs among students. The question is asked, Should a communist gym instructor, whose utterances to his students are confined largely to the hup-two-three-four that he chants when he leads the calisthenics drill, be summarily dismissed? Should a chemist, who confines his campus activities solely to chemistry? Until he overtly preaches communism, or permits it to taint his research, his writings, or his teaching (some say), the Communist should enjoy the same rights as all other faculty members.

Others—and they appear to be a growing number—have concluded that proof of Communist Party membership is in itself sufficient grounds for dismissal from a college faculty.

To support the argument of this group, Professor Arthur O. Lovejoy, who in 1913 began the movement that led to the establishment of the AAUP, has quoted a statement that he wrote in 1920, long before communism on the campus became a lively issue:

"Society . . . is not getting from the scholar the particular service which is the principal *raison d'être* of his calling, unless it gets from him his honest report of what *he* finds, or believes, to be true, after careful study of the problems with which he deals. Insofar, then, as faculties are made up of men whose teachings express, *not* the results of their own research and reflection and that of their fellow-specialists, but rather the opinions of other men—whether holders of public office or private persons from whom endowments are received—just so far are colleges and universities perverted from their proper function . . ."

(His statement is the more pertinent, Professor Lovejoy notes, because it was originally the basis of "a criticism of an American college for accepting from a 'capitalist' an endowment for a special professorship to be devoted to showing 'the fallacies of socialism and kindred theories and practices.' I have now added only the words 'holders of public office.' ")

Let us quote Professor Lovejoy at some length, as he looks at the communist teacher today:

"It is a very simple argument; it can best be put, in the logician's fashion, in a series of numbered theorems:

"1. Freedom of inquiry, of opinion, and of teaching in universities is a prerequisite, if the academic scholar is to perform the proper function of his profession.

"2. The Communist Party in the United States is an organization whose aim is to bring about the establishment in this country of a political as well as an economic system essentially similar to that which now exists in the Soviet Union.

"3. That system does not permit freedom of inquiry, of opinion, and of teaching, either in or outside of universities; in it the political government claims and exercises the right to dictate to scholars what conclusions they must accept, or at least profess to accept, even on questions lying within their own specialties—for example, in philosophy, in history, in aesthetics and literary criticism, in economics, in biology.

"4. A member of the Communist Party is therefore engaged in a movement which has already extinguished academic freedom in many countries and would—if it were successful here—result in the abolition of such freedom in American universities.

"5. No one, therefore, who desires to maintain

academic freedom in America can consistently favor that movement, or give indirect assistance to it by accepting as fit members of the faculties of universities, persons who have voluntarily adhered to an organization one of whose aims is to abolish academic freedom.

"Of these five propositions, the first is one of principle. For those who do not accept it, the conclusion does not follow. The argument is addressed only to those who do accept that premise. The second, third, and fourth propositions are statements of fact. I submit that they cannot be honestly gainsaid by any who are acquainted with the relevant facts . . .

"It will perhaps be objected that the exclusion of communist teachers would itself be a restriction upon freedom of opinion and of teaching—*viz.*, of the opinion and teaching that intellectual freedom should be abolished in and outside of universities; and that it is self-contradictory to argue for the restriction of freedom in the name of freedom. The argument has a specious air of logicality, but it is in fact an absurdity. The believer in the indispensability of freedom, whether academic or political, is not thereby committed to the conclusion that it is his duty to facilitate its destruction, by placing its enemies in strategic positions of power, prestige, or influence . . . The conception of freedom is not one which implies the legitimacy and inevitability of its own suicide. It is, on the contrary, a conception which, so to say, defines the limit of its own applicability; what it implies is that there is *one* kind of freedom which is inadmissible—the freedom to destroy freedom. The defender of liberty of thought and speech is not morally bound to enter the fight with both hands tied behind his back. And those who would deny such freedom to others, if they could, have no moral or logical basis for the claim to enjoy the freedom which they would deny . . .

"In the professional code of the scholar, the man of science, the teacher, the first commandment is: Thou shalt not knowingly misrepresent facts, nor tell lies to students or to the public. Those who not merely sometimes break this commandment, but repudiate any obligation to respect it, are obviously disqualified for membership in any body of investigators and teachers which maintains the elementary requirements of professional integrity.

"To say these things is not to say that the economic and even the political doctrines of communism should not be presented and freely discussed within academic walls. To treat them simply as 'dangerous thought,' with which students should not be permitted to have any contact, would give rise to a plausible suspicion that they are taboo because they would, if presented, be all too convincing; and out of that suspicion young Communists are bred. These doctrines, moreover, are historical facts; for better or worse, they play an immense part in the intellectual and political controversies of the present age. To deny to students means of learning accurately what they are, and of reaching informed judgments about them, would be to fail in one of the major pedagogic obligations of a university—to enable students to understand the world in which they will live, and to take an intelligent part in its affairs . . ."

IF EVERY COMMUNIST admitted he belonged to the party—or if the public, including college teachers and administrators, somehow had access to party membership lists—such a policy might not be difficult to apply. In practice, of course, such is not the case. A two-pronged danger may result: (1) we may not "spot" all Communists, and (2) unless we are very careful, we may do serious injustice to persons who are not Communists at all.

What, for example, constitutes proof of Communist Party membership? Does refusal to take a loyalty oath? (Many *non*-Communists, as a matter of principle, have declined to subscribe to "discriminatory" oaths—oaths required of one group in society, *e.g.*, teachers, but not of others.) Does invoking the Fifth Amendment? Of some 200 dismissals from college and university faculties in the past fifteen years, where communism was an issue, according to AAUP records, most were on grounds such as these. Only a handful of teachers were incontrovertibly proved, either by their own admission or by other hard evidence, to be Communist Party members.

Instead of relying on less-than-conclusive evidence of party membership, say some observers, we would be wiser—and the results would be surer—if we were to decide each case by determining whether the teacher has in fact violated his trust. Has he been intellectually dishonest? Has he misstated facts? Has he published a distorted bibliography? Has he preached a party line in his classroom? By such a determination we would be able to bar the practicing Communist from our campuses, along with all others guilty of academic dishonesty or charlatanry.

How can the facts be established?

As one who holds a position of unusual trust, say most educators (including the teachers' own organization, the AAUP), the teacher has a special obligation: if responsible persons make serious charges against his professional integrity or his intellectual honesty, he should be willing to submit to examination by his colleagues. If his answers to the charges are unsatisfactory—evasive, or not in accord with evidence—formal charges should be brought against him and an academic hearing, conducted according to due process, should be held. Thus, say many close observers of the academic scene, society can be sure that justice is done—both to itself and to the accused.

Is the college teacher's freedom in any real jeopardy?

HOW FREE is the college teacher today? What are his prospects for tomorrow? Either here or on the horizon, are there any serious threats to his freedom, besides those threats to the freedom of us all?

Any reader of history knows that it is wise to adopt the view that freedom is *always* in jeopardy. With such a view, one is likely to maintain safeguards. Without safeguards, freedom is sure to be eroded and soon lost.

So it is with the special freedom of the college teacher—the freedom of ideas on which our civilization banks so much.

Periodically, this freedom is buffeted heavily. In part of the past decade, the weather was particularly stormy. College teachers were singled out for

Are matters of academic freedom easy
Try handling some of these

You are a college president.

Your college is your life. You have thrown every talent you possess into its development. No use being modest about it: your achievements have been great.

The faculty has been strengthened immeasurably. The student body has grown not only in size but in academic quality and aptitude. The campus itself—dormitories, laboratories, classroom buildings—would hardly be recognized by anyone who hasn't seen it since before you took over.

Your greatest ambition is yet to be realized: the construction of a new library. But at last it seems to be in sight. Its principal donor, a wealthy man whom you have cultivated for years, has only the technicalities—but what important technicalities!—to complete: assigning to the college a large block of securities which, when sold, will provide the necessary $3,000,000.

This afternoon, a newspaper reporter stopped you as you crossed the campus. "Is it true," he asked, "that John X, of your economics department, is about to appear on coast-to-coast television advocating deficit spending as a cornerstone of federal fiscal policy? I'd like to do an advance story about it, with your comments."

You were not sidestepping the question when you told the reporter you did not know. To tell the truth, you had never met John X, unless it had been for a moment or two of small-talk at a faculty tea. On a faculty numbering several hundred, there are bound to be many whom you know so slightly that you might not recognize them if they passed you on the street.

Deficit spending! Only last night, your wealthy library-donor held forth for two hours at the dinner table on the immorality of it. By the end of the evening, his words were almost choleric. He phoned this morning to apologize. "It's the one subject I get rabid about," he said. "Thank heavens you're not teaching that sort of thing on *your* campus."

You had your secretary discreetly check: John X's telecast is scheduled for next week. It will be at least two months before you get those library funds. There is John X's extension number, and there is the telephone. And there are your lifetime's dreams.

Should you . . .?

You are a university scientist.

You are deeply involved in highly complex research. Not only the equipment you use, but also the laboratory assistance you require, is expensive. The cost is far more than the budget of your university department could afford to pay.

So, like many of your colleagues, you depend upon a governmental agency for most of your financial support. Its research grants and contracts make your work possible.

But now, as a result of your studies and experiments, you have come to a conclusion that is diametrically opposite to that which forms the official policy of the agency that finances you—a policy that potentially affects the welfare of every citizen.

You have outlined, and documented, your conclusion forcefully, in confidential memoranda. Responsible officials believe you are mistaken; you are certain you are not. The disagreement is profound. Clearly the government will not accept your view. Yet you are convinced that it is so vital to your country's welfare that you should not keep it to yourself.

You are a man of more than one heavy responsibility, and you feel them keenly. You are, of course, responsible to your university. You have a responsibility to your colleagues, many of whose work is financed similarly to yours. You are, naturally, responsible to your country. You bear the responsibility of a teacher, who is expected to hold back no knowledge from his students. You have a responsibility to your own career. And you feel a responsibility to the people you see on the street, whom you know your knowledge affects.

Loyalties, conscience, lifetime financial considerations: your dilemma has many horns.

Should you . . .?

You are a business man.

You make toothpaste. It is good toothpaste. You maintain a research department, at considerable expense, to keep it that way.

A disturbing rumor reached you this morning. Actually, it's more than a rumor; you could class it as a well-founded report. The dental school of a famous university is about to publish the results of a study of toothpastes. And, if your informant had the facts straight, it can do nothing but harm to your current selling campaign.

You know the dean of the dental school quite well. Your company, as part of its policy of supporting good works in dental science, has been a regular and substantial contributor to the school's development fund.

It's not as if you were thinking of suppressing anything; your record

to solve?
problems.

of turning out a good product—the best you know—is ample proof of that. But if that report were to come out now, in the midst of your campaign, it could be ruinous. A few months from now, and no harm would be done.

Would there be anything wrong if you . . .?

Your daughter is at State.

You're proud of her; first in her class at high school; pretty girl; popular; extraordinarily sensible, in spite of having lots of things to turn her head.

It was hard to send her off to the university last fall. She had never been away from the family for more than a day or two at a time. But you had to cut the apron-strings. And no experience is a better teacher than going away to college.

You got a letter from her this morning. Chatty, breezy, a bit sassy in a delightful way. You smiled as you read her youthful jargon. She delights in using it on you, because she remembers how you grimaced in mock horror whenever you heard it around the house.

Even so, you turned cold when you came to the paragraph about the sociology class. The so-called scientific survey that the professor had made of the sexual behavior of teen-agers. This is the sort of thing Margie is being taught at State? You're no prude, but . . . You know a member of the education committee of the state legislature. Should you . . .? And on the coffee table is the letter that came yesterday from the fund-raising office at State; you were planning to write a modest check tonight. To support more sociology professors and their scientific surveys? Should you . . .?

special criticism if they did not conform to popular patterns of thought. They, and often they alone, were required to take oaths of loyalty—as if teachers, somehow, were uniquely suspect.

There was widespread misunderstanding of the teacher's role, as defined by one university president:

"It is inconceivable . . . that there can exist a true community of scholars without a diversity of views and an atmosphere conducive to their expression . . . To have a diversity of views, it is essential that we as individuals be willing to extend to our colleagues, to our students, and to members of the community the privilege of presenting opinions which may, in fact, be in sharp conflict with those which we espouse. To have an atmosphere of freedom, it is essential that we accord to such diverse views the same respect, the same attentive consideration, that we grant to those who express opinions with which we are in basic agreement."

THE STORM of the '50's was nationwide. It was felt on every campus. Today's storms are local; some campuses measure the threat to their teachers' freedom at hurricane force, while others feel hardly a breeze.

Hence, the present—relatively calm—is a good time for assessing the values of academic freedom, and for appreciating them. The future is certain to bring more threats, and the understanding that we can build today may stand us in good stead, then.

What is the likely nature of tomorrow's threats?

"It is my sincere impression that the faculties of our universities have never enjoyed a greater latitude of intellectual freedom than they do today," says the president of an institution noted for its high standards of scholarship and freedom. "But this is a judgment relative only to the past.

"The search for truth has no ending. The need to seek truth for its own sake must constantly be defended. Again and again we shall have to insist upon the right to express unorthodox views reached through honest and competent study.

"Today the physical sciences offer safe ground for speculation. We appear to have made our peace with biology, even with the rather appalling implications of modern genetics.

"Now it is the social sciences that have entered the arena. These are young sciences, and they are difficult. But the issues involved—the positions taken with respect to such matters as economic growth, the tax structure, deficit financing, the laws

affecting labor and management, automation, social welfare, or foreign aid—are of enormous consequence to all the people of this country. If the critics of our universities feel strongly on these questions, it is because rightly or wrongly they have identified particular solutions uniquely with the future prosperity of our democracy. All else must then be heresy."

Opposition to such "heresy"—and hence to academic freedom—is certain to come.

IN THE FUTURE, as at present, the concept of academic freedom will be far from uncomplicated. Applying its principles in specific cases rarely will be easy. Almost never will the facts be all white or all black; rather, the picture that they form is more likely to be painted in tones of gray.

To forget this, in one's haste to judge the rightness or wrongness of a case, will be to expose oneself to the danger of acting injudiciously—and of committing injustice.

The subtleties and complexities found in the gray areas will be endless. Even the scope of academic freedom will be involved. Should its privileges, for example, apply only to faculty members? Or should they extend to students, as well? Should students, as well as faculty members, be free to invite controversial outsiders to the campus to address them? And so on and on.

The educated alumnus and alumna, faced with specific issues involving academic freedom, may well ponder these and other questions in years to come. Legislators, regents, trustees, college administrators, students, and faculty members will be pondering them, also. They will look to the alumnus and alumna for understanding and—if the cause be just—for support. Let no reader underestimate the difficulty—or the importance—of his role.

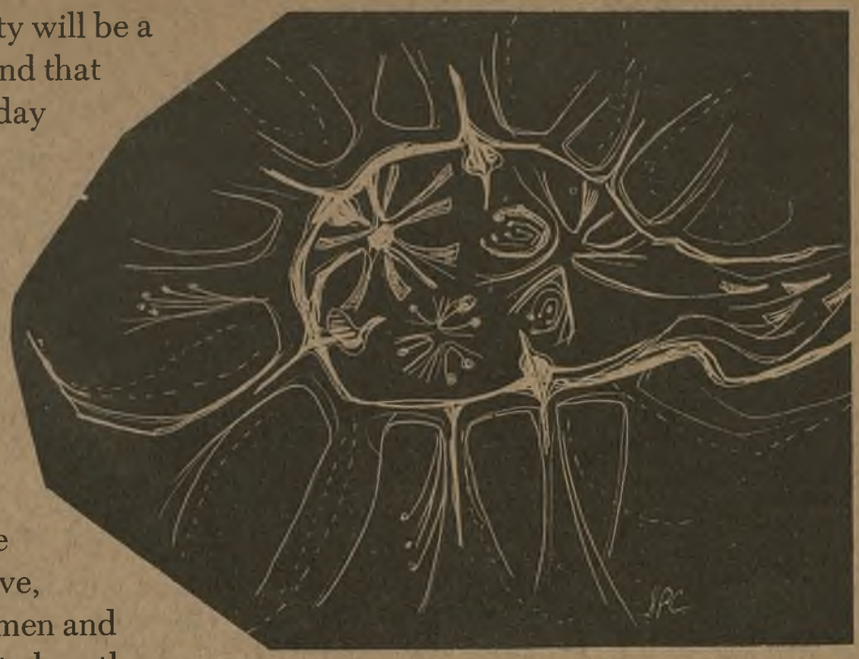
Illustrations by Robert Ross

"What Right Has This Man?"

The report on this and the preceding 15 pages is the product of a cooperative endeavor in which scores of schools, colleges, and universities are taking part. It was prepared under the direction of the group listed below, who form EDITORIAL PROJECTS FOR EDUCATION, a non-profit organization associated with the American Alumni Council. Copyright © 1963 by Editorial Projects for Education, Inc. All rights reserved; no part of this report may be reproduced without express permission of the editors. Printed in U.S.A.

JAMES E. ARMSTRONG, *The University of Notre Dame*
DENTON BEAL, *Carnegie Institute of Technology*
DAVID A. BURR, *The University of Oklahoma*
DAN ENDSLEY, *Stanford University*
MARALYN O. GILLESPIE, *Swarthmore College*
L. FRANKLIN HEALD, *The University of New Hampshire*
CHARLES M. HELMKEN, *American Alumni Council*
KEN METZLER, *The University of Oregon*
JEAN D. LINEHAN
JOHN I. MATTILL, *Massachusetts Institute of Technology*
JOHN W. PATON, *Wesleyan University*
ROBERT L. PAYTON, *Washington University*
FRANCES PROVENCE, *Baylor University*
ROBERT M. RHODES, *The University of Pennsylvania*
STANLEY SAPLIN, *New York University*
VERNE A. STADTMAN, *The University of California*
FRANK J. TATE, *The Ohio State University*
CHARLES E. WIDMAYER, *Dartmouth College*
REBA WILCOXON, *The University of Arkansas*
DOROTHY F. WILLIAMS, *Simmons College*
RONALD A. WOLK, *The Johns Hopkins University*
ELIZABETH BOND WOOD, *Sweet Briar College*
CHESLEY WORTHINGTON, *Brown University*
CORBIN GWALTNEY, *Executive Editor*

. . . The ever-renewing society will be a free society. It will understand that the only stability possible today is stability in motion. It will foster a climate in which seedlings of new ideas can survive and the deadwood of obsolete ideas be hacked out. Above all, it will recognize that its capacity for renewal depends on the individuals who make it up. It will foster innovative, versatile, and self-renewing men and women and give them room to breathe.



By JOHN W. GARDNER, *President*, Carnegie Corporation of New York

Renewal in Societies and Men

Is academic freedom just for professors? Or does it provide the intellectual climate all men need if they are to keep their society alert, virile—and free? Whether it's called academic freedom, free enterprise in ideas, or something else, it's as crucial to effective citizenship as it is to effective scholarship. Without ever mentioning the term, Dr. Gardner—a 1935 Stanford graduate—demonstrates academic freedom's value not just to privileged inhabitants of ivory towers, but to all of society. He prepared this article for the 1962 Annual Report of the Carnegie Corporation.

EDUCATION looks to the future, and is inevitably an attempt to shape the future. Today the road ahead is clouded by the danger of nuclear war, and the enormity of the threat blocks our vision. We have the difficult task of facing the threat and at the same time looking beyond it. If we fail to look beyond it, if the long-term future loses all reality for us, then educational strategies degenerate into spasmodic responses to the alarms of the moment—as they have today.

If we free ourselves for a moment from preoccupation with the nuclear problem, we encounter another specter that haunts the modern mind. A generation of critics has dismantled the idea of Progress, and every few years the archaeologists unearth another ancient civilization that flourished for a time and then died. The modern mind, acutely conscious of the sweep of history and chronically apprehensive, is quick to ask, "Is it our turn now?"

Rather than debate that overworked topic, I am going to ask another kind of question: Suppose one tried to imagine a society that would be relatively immune to decay—an ever-renewing society. What would it be like? What would be the ingredients that provided the immunity?

The skeptic may ask whether any society should last forever, even ours. It is not a crucial question. If

longevity were the only virtue of the continuously renewing society, the whole exercise might turn out to be numbingly dull. But a society that has learned the secret of continuous renewal will be a more interesting and a more vital society—not in some distant future but in the present. Since continuous renewal depends on conditions that permit growth and fulfillment of individuals, it will also be a society fit for free men.

TO ACCOMPLISH renewal, we need to understand what prevents it.

When we talk about revitalizing a society, we tend to put exclusive emphasis on finding new ideas. But there is usually no shortage of new ideas; the problem is to get a hearing for them. And that means breaking through the crusty rigidity and stubborn complacency of the *status quo*. The aging society develops elaborate defenses against new ideas—"mind-forged miracles," in William Blake's vivid phrase.

The development of resistance to new ideas is a familiar process in the individual. The infant is a model of openness to new experience—receptive, curious, eager, unafraid, willing to try anything. As the years pass these priceless qualities fade. He becomes more cautious, less eager, and accumulates deeply rooted habits and fixed attitudes.

The same process may be observed in organizations. The young organization is willing to experiment with a variety of ways to solve its problems. It is not bowed by the weight of tradition. It rushes in where angels fear to tread. As it matures it develops settled policies and habitual modes of solving problems. In doing so it becomes more efficient, but also less flexible, less willing to look freshly at each day's experience. Its increasingly fixed routines and practices are congealed in an elaborate body of written rules. In the final stage of organizational senility there is a rule or precedent for everything. Someone has said that the last act of a dying organization is to get out a new and enlarged edition of the rule book.

And written rules are the least of the problem. In mature societies and organizations there grows a choking underbrush of customs and precedents. There comes to be an accepted way to do everything. Eccentric experimentation and radical departures from past practice are ruled out. The more pervasive this conventionality, the less likely is the innovator to flourish. The inventor of the Bessemer process for steel-making, Sir Henry Bessemer, wrote:

> I had an immense advantage over many others dealing with the problem inasmuch as I had no fixed ideas derived from long-established practice to control and bias my mind, and did not suffer from the general belief that whatever is, is right.

As a society becomes more concerned with precedent and custom, it comes to care more and more about *how* things are done and less about *whether* they are done. The man who wins acclaim is not the one who "gets things done" but the one who has an ingrained knowledge of the rules and accepted practices. Whether he accomplishes anything is less important than whether he conducts himself in an "appropriate" manner. Thus do men become the prisoners of their procedures.

The body of custom, convention, and "reputable" standards exercises such an oppressive effect on creative minds that new developments in a field often originate outside the area of respectable practice. The break with traditional art was not fostered within the Academy. Jazz did not spring from the bosom of the respectable music world. The land-grant colleges, possibly the most impressive innovation in the history of American higher education, did not spring from the inner circle of higher education as it then existed. Motels, the most significant development of this generation in innkeeping, were at first regarded with scorn by reputable hotel people.

VESTED INTERESTS constitute another problem for the aging society. The phrase "vested interests" has been associated with individuals or organizations of wealth and power, but the vested interests of workers may be as strong as those of the top executives. In any society many established ways of doing things are held in place, not by logic nor even by habit, but by the enormous restraining force of vested interests. In an organization certain things remain unchanged for the simple reason that changing them would jeopardize the rights, privileges, and advantages of specific individuals—perhaps the president—or the maintenance men.

The more democratic an organization—or a society—the more clearly it will reflect the interests of its members. So a democratic group may be particularly susceptible to the rigidifying force of vested interest.

Still another reason for the loss of vitality and momentum in a society is a lowered level of motivation. It is not always easy to say why motivation deteriorates. Perhaps people stop believing in the things they once believed in—the things that gave meaning to their efforts. Perhaps they grow soft from easy living. Perhaps they fall into the decadent habit of imagining that intense effort is somehow unsophisticated, that dedication is naïve, that ambition is a bit crude. Or perhaps a rule-ridden society has bottled up their energy, or channeled it into all the tiny rivulets of conformity.

One may argue, as Toynbee does, that a society needs challenge. It is true. But societies differ notably in their capacity to see the challenge that exists. No society has ever so mastered the environment and itself that no challenge remained; but a good many have gone to sleep because they failed to understand the challenge that was undeniably there.

Whatever the reason for loss of motivation, the consequences are apt to be devastating. Nothing—neither wealth nor technology, neither talent nor wisdom—will save a society in which motivation continues to deteriorate.

So much for the factors that contribute to loss of vitality in a society. What can be done about them?

MANY OF THE QUALITIES crucial to a society's continued vitality are qualities of youth: vigor, flexibility, enthusiasm, readiness to learn. This could lead us to imagine that the critical question is how to stay young. But youth implies immaturity. And although everyone wants to be young, no one wants to be immature.

Every society must mature, but much depends on how this process takes place. A society whose maturing process consists simply of acquiring more firmly established ways of doing things is headed

r the graveyard—even if it learns to do ose things with greater and greater . *In the ever-renewing society what atures is a system or framework within hich continuous innovation, renewal, d rebirth can occur.*

Concern with decay and renewal in so-eties must give due emphasis to both ntinuity and change. Peter Drucker has isely said that in a world buffeted by ange the only way to conserve is by in-ovating. We can turn the saying around d assert that innovation would be im-ssible without certain kinds of conserv-g. The scientist in his laboratory may eem to be the personification of innova-n and change, yet he functions effec-ively because of certain deeply estab-shed continuities in his life. As a scien-st he is living out a tradition several cen-uries old in its modern incarnation, housands of years old in its deeper roots. Every move that he makes reflects skills, ttitudes, and habits of mind that were ears in the making. He is part of an en-during tradition and a firmly established ntellectual system; but it is *a tradition nd a system designed to accomplish its wn continuous renewal.*

The free society is not the only kind hat can accomplish change. Far from it. A totalitarian regime coming to power on he heels of a revolution may be well itted to accomplish one great burst of change. But in the long run its spurt of energy is not only in danger of dying out but of being replaced by deadly rigidity. Compared to the free society, it is not well fitted for continuous renewal, generation after generation.

One crucial respect in which the ever-renewing society parts company with all totalitarianism is that it is pluralistic. There is a willingness to entertain diverse views. There are many sources of initiative rather than one. Power is widely dispersed rather than tightly held. There are multiple channels through which the individual may gain information and express his views.

It would be hard to overemphasize the importance of pluralism in helping a society to escape the cycle of growth and decay. The ever-renewing society is not convinced that it enjoys eternal youth. It knows that it is forever growing old and that it is always producing deadwood and must, for that reason, look to its seed beds. If a society is dominated by one official point of view, the tentative beginnings of a new point of view may be a matter of devastating strain and conflict. In a pluralistic society, where there are already various points of view, the emergence of another is hardly noticed. In an open society, freedom of communication insures that the new ideas will be brought into confrontation with the old.

Perhaps the most important characteristic of an ever-renewing system is that it has built-in provisions for vigorous criticism. It protects the dissenter and the nonconformist. It knows that from the ranks of the critics come not only cranks and troublemakers but saviors and innovators. And since the spirit that welcomes nonconformity is a fragile thing, the ever-renewing society does not depend on that spirit alone. It devises explicit legal and constitutional arrangements to protect the critic.

And that brings us to another requirement for the continuously renewing society. It must have some capacity to resolve conflicts, both internal and external. Without such capacity, it either will be destroyed or will dissipate its energies in the maintenance of fiercely entrenched feuds. The peace that it seeks is not a state of passivity and uneventfulness. It knows that without the ebb and flow of conflict and tension progress will not be made in eradicating old evils or opening new frontiers; but it is committed to the orderly "management of tensions." Thus in its internal affairs it deliberately makes possible certain kinds of conflict, e.g., by protecting dissenters and assuring them a hearing; but it creates a framework of rules which will assure that the conflict is resolved in an orderly fashion. It devises institutional arrangements that provide a harmless outlet for minor tensions and resolve some of the worst tensions before they reach the point of explosion.

In the last analysis, no society will be capable of continuous renewal unless it produces the kind of men who can further that process. It will need innovative men and men with the capacity of self-renewal.

Faced as we are with problems that put a constant strain on our adaptive powers, it is hardly surprising that the word *creativity* has achieved a dizzying popularity. It is more than a word today; it is an incantation. It is a kind of psychic wonder drug, powerful and presumably painless; and everyone wants a prescription. But the fact that the word has become a slogan should not make us antagonistic to the thing itself. What is implied in the word creativity, rightly conceived, is something that the continuously renewing society needs very much.

Only a handful of men and women in any population will achieve the highest levels of creativity and innovation. But a good many can be moderately creative, and even more can show some spark of creativity at some time in their lives. The number of men and women who exhibit some measure of creativity, and the extent to which they exhibit it, may depend very much on the climate in which they find themselves.

From all that we know of the creative individual—and we now know a good deal—he thrives on freedom. Recent research shows that he is not the capricious and disorderly spirit some romantics have imagined him to be. He may be quite conventional with respect to all the trivial customs and niceties of life. But in the area of his creative work he must be free to believe or doubt, agree or disagree. He must be free to ask the unsettling questions, and free to come up with disturbing answers.

When Alexander the Great visited Diogenes and asked whether he could do anything for the famed teacher, Diogenes replied, "Only stand out of my light." Perhaps some day we shall know how to heighten creativity. Until then, one of the best things we can do for creative people is to stand out of their light.

No one knows why some individuals seem capable of self-renewal while others do not. The people interested in adult education have struggled heroically to increase the *opportunities* for self-development, and they have succeeded remarkably. Now they had better turn to the thing that is really blocking self-development—the individual's own intricately designed, self-constructed prison; or to put it another way, the individual's capacity for self-renewal.

It is not unusual to find that the major

changes in life—marriage, a move to a new city, a new job, or a national emergency—reveal to us quite suddenly how much we had been imprisoned by the comfortable web we had woven around ourselves. Unlike the jailbird, we don't know that we have been imprisoned until after we have broken out. It was a common experience during World War II that men and women who had been forced to break the pattern of their lives often discovered within themselves resources and abilities they had not known to exist. How ironic that it should take war and disaster to bring about self-renewal on a large scale.

When we have learned to accomplish such self-renewal without wars and other disasters, we shall have discovered one of the most important secrets a society can learn, a secret that will unlock new resources of vitality throughout the society. And we shall have done something to avert the hardening of the arteries that attacks so many societies. Men who have lost their adaptiveness naturally resist change. The most stubborn protector of his own vested interest is the man who has lost the capacity for self-renewal.

WHAT ARE the characteristics of the self-renewing man, and what might we do to foster those characteristics? Though we are far from understanding these matters, we have a few pieces of the puzzle.

1. *The self-renewing man is versatile and adaptive.* He is not trapped in the techniques, procedures, or routines of the moment. He is not the victim of fixed habits and attitudes. He is not imprisoned by extreme specialization. This last point is so important (and so easily misunderstood) that we must deal with it cautiously. Specialization is a universal feature of biological functioning, dramatically observable in insect societies and in the structure and functioning of the cells that make up a living organism. In humans, it is not peculiar to the modern age. Division of labor is older than recorded history. So specialization as such is no cause for alarm. But specialization today has extended far beyond anything we knew in the past, and this presents two difficulties. First, there are tasks that cannot be performed by men and women who have lost the capacity to function as generalists—tasks of leadership and management, certain kinds of innovation, communication, teaching, and many of the responsibilities of child rearing and citizenship. Second, the highly specialized person often loses the adaptability so essential today. He may be unable to reorient himself when technological change makes his specialty obsolete.

In a rapidly changing world versatility is a priceless asset, and the self-renewing man has not lost that vitally important attribute. He may be a specialist but he has also retained the capacity to function as a generalist. Within limits he has even retained the capacity to change specialties.

We are beginning to understand how to educate for versatility and renewal, but we must deepen that understanding. If we indoctrinate the young person in an elaborate set of fixed beliefs, we are ensuring his early obsolescence. The alternative is to develop skills, attitudes, habits of mind, and the kinds of knowledge and understanding that will be the instruments of continuous change and growth on the part of the young person. Then we shall have fashioned *a system that provides for its own continuous renewal.*

This suggests a standard for judging the effectiveness of all education—and so judged, much education today is monumentally ineffective. All too often we are giving young people cut flowers when we should be teaching them to grow their own plants. We are stuffing their heads with the products of earlier innovation rather than teaching them how to innovate. We think of the mind as a storehouse to be filled rather than as an instrument to be used.

2. *The self-renewing man is highly motivated and respects the sources of his own energy and motivation.* He knows how important it is to believe in what he is doing. He knows how important it is to pursue the things about which he has deep conviction. Enthusiasm for the task to be accomplished lifts him out of the ruts of habit and customary procedure. Drive and conviction give him the courage to risk failure. (One of the reasons mature people stop learning is that they become less and less willing to risk failure.) And not only does he respond to challenge, but he also sees challenge where others fail to see it.

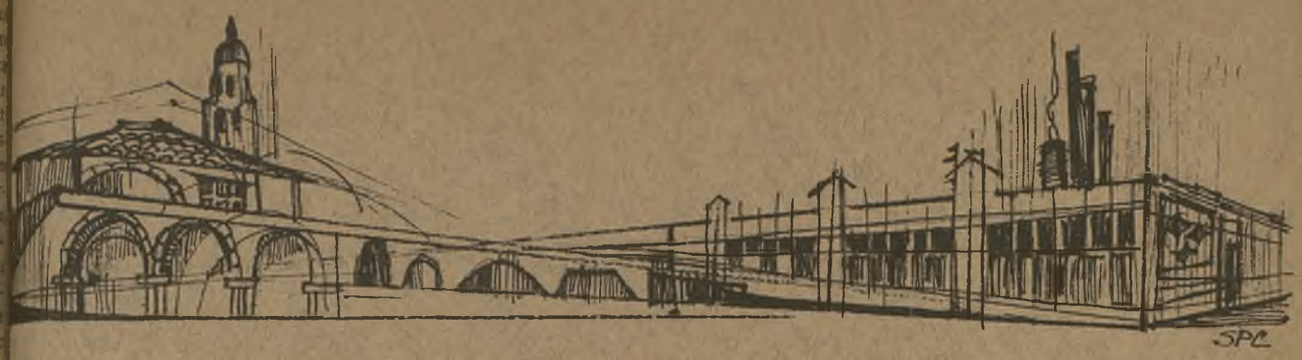
But the society does not always find these attributes easy to live with. Drive and conviction can be nuisances. The enthusiast annoys people by pushing ideas a little too hard. He makes mistakes because he is too eager. He lacks the cool, detached urbanity that some people consider essential to the ideal organization man. But the ever-renewing society sees high motivation as a precious asset and allows wide latitude to the enthusiast. It does more than that—much more. It puts a strong emphasis on standards, on excellence, on high performance. It fosters a climate in which dedication, enthusiasm, and drive are not only welcomed but expected. It does not accept the "sophisticated" view that zeal is somehow unworthy of cultivated people.

3. *For the self-renewing man the development of his own potentialities and the process of self-discovery never end.* It is a sad but unarguable fact that most h beings go through life only partially of the full range of their abilities. In own society we could do much more t we now do to encourage self-develop We could, for example, drop the inc ingly silly fiction that education is youngsters, and devise many more rangements for lifelong learning. An ev more important task is to remove the stacles to individual fulfillment. T means doing away with the gross ineq ties of opportunity imposed on some of citizens by race prejudice and econo hardship. It means a continuous and effe tive operation of "talent salvage" to assi young people to achieve the promise th is in them.

But the development of one's talent only part, perhaps the easiest part, of self development. Another part is self-know edge. The maxim "Know thyself"—so an cient, so deceptively simple, so difficult t follow—has gained in richness of meanin as we learn more about man's nature. Modern research in psychology and p chiatry has shown the extent to w mental health is bound up in a reasonab objective view of the self, in accessibil of the self to consciousness, and in accept ance of the self. And we have learned ho crucial is the young person's search fo identity.

As Josh Billings said, "It is not only th most difficult thing to know one's self bu the most inconvenient." It is a lifelon process, and formal education is only a part of the process—but an important part. Some people today seem to imagine that the chief function of education is to pro vide the student with a bag of tricks. The chief complaint of such people is that th schools are not teaching the tricks well enough — or are teaching 19th-centur tricks when they should be teaching slick 20th-century tricks. As a beacon to guid one away from such shallows, consider the comment of Learned Hand in his dis cussion of liberty: "By enlightenment men gain insight into their own being, and tha is what frees them."

THAT BRINGS us again to the recogni tion that the ever-renewing societ will be a free society. It will understan that the only stability possible today i stability in motion. It will foster a climat in which the seedlings of new ideas can survive and the deadwood of obsolet ideas be hacked out. Above all, it will recognize that its capacity for renewa depends on the individuals who make it up. It will foster innovative, versatile, and self-renewing men and women and give them room to breathe. Having room to breathe, they will contribute, as only they can, to the continued vitality of the society.



TECHNOLOGY Is Not Enough

(*Continued from page 23*) technological ed for national mastery and individual omfort, as the eligible young maiden on hose potential wealth we look with the xperienced eye of one acquainted with he advantages of "community property."

There is, in the national consciousness, uch a confusion between the fruits of cience, which I define as technology, and cience itself that I would like to offer ome of my own ideas about what science s, why it is exciting, and what its contriutions and limitations are.

One reason many young people turn to cience as a career these days is that it ffers a life based on faith and belief. ndeed, for some people it has become a ubstitute for religion. Kenneth Barnes, British physicist-schoolmaster, has said (and correctly, I think): "A man may choose not to believe in God without ceasng to live. But a scientist cannot cease believe in the rationality of the universe and continue to be a scientist; because the alternative is a chaotic nightmare." Of science he has also said: "It not an accumulation of intellectual statements; it is an activity." With this, think, almost all would agree.

Warren Weaver has said "Science is a way of organizing reproducible knowledge about such problems as are subject to the basic laws of logic, and are for the most part measurable; of deciding what is relevant or not; of impartially testing hypotheses; of ruthlessly discarding data that prove to be inaccurate or inadequate; of finding, interpreting, and facing facts and of making the facts of nature the servants of man." In that last phrase, it seems to me, Weaver the technologist rather than Weaver the scientist is speaking. Although I do not agree with all of Weaver's definition it is worth noting, parenthetically, that if one adopts this definition it follows that only the most trivial, statistical aspects of *human* activity fall within the realm of science and that people who call themselves political or social *scientists* either deal with trivial statistics or misname themselves in acquiring the title of scientists.

UNDERLYING all the various statements that can be made about science there is, I believe, one clear thought which can be summarized in the following way: science is a special—and rather narrow—system of philosophy which has a large ethical content; it attempts to provide a representation of natural events, in terms of conceptual models or ideas, together with appropriate rules of operation for obtaining that representation. The ethical value in which science ranks so high is accuracy and, in my opinion, the spiritual qualities in which it abounds are faith and humility.

Some scientists, I suspect, would disavow the statement that science is a *narrow* philosophical system, pointing instead with pride to the wide range of natural phenomena which constitute the scientist's source of stimulus. However, wide as the world of nature is, it is an exaggeration to claim that the material content of human activity is a major portion of the greater whole of emotion, esthetics, morality, and religion. Still other scientists might well disagree with the word *representation* and would claim that science provides an *explanation* of natural phenomena. It is on this point that many scientists have fallen foul of their colleagues in other scholarly disciplines such as philosophy and theology, for the word explanation has a peculiarly restricted meaning in science.

If science can be said to explain anything at all, it does so only to the extent that it describes phenomena in terms of mental concepts, the essential correctness of which we really have no way of testing. Much real confusion stems from the specialized use that science makes of the word *explain*. In the minds of the general public, and in the minds of scholars in other disciplines, to explain implies that one has some ultimate or prime cause in which the explanation is performed. Such is rarely the case in scientific explanation. When I "explain" the properties of atoms in terms of electrons I am not dealing with prime causes at all; I am merely shifting a description to a new level of abstraction.

It is, I fear, a common misconception held by many scientists that science is reality. Actually it is no such thing; as the physicist-theologian Yarnold has said: "Science is not reality, it is a theory about reality."

Again, still other scientists would substitute the word *true* for accurate, claiming that the outstanding ethical value in science is truth. This claim, of course, is inadmissible; the history of science teaches us too many bitter lessons to permit us to assert that it is within the power of *any* philosophical scheme to prove the truth of the axioms and descriptions on which it builds. The best that one can hope for—and it is a very respectable second best—is to show that our axioms and beliefs are not manifestly false.

Science very properly limits its scope. While philosophy and theology may have much to say on the subject of truth, science wisely makes little contribution to this. For scientific concepts are constantly changing. The concepts that we use to describe the atom in 1963 are vastly different from those used in 1913. Even though the 1913 model could, in 1913, give a reasonably accurate and coherent account of phenomena, it is now hopelessly outdated and inadequate. We have every expectation that the 1963 model will in turn prove to be inadequate. Most scientific models and concepts, therefore, can make little claim to even *temporary accuracy*, let alone truth. Science need not feel embarrassment in settling for the value of accuracy and leaving the value of truth to others. In the shifty, deceitful world of the 20th century accurate description is to be prized and respected.

"The scientist does not say that his beliefs, his pattern of thought, must be certain and neatly ordered before he approaches new facts," says Barnes. "He does not reach out for new material to incorporate into an already certain body of fact and theory. He approaches his work

not with security, but with a kind of insecurity. He often seems to move forward with his left foot before his right foot is firmly set." This it is that offers zest to so many scientists and attracts the young.

MORE SHEER NONSENSE is talked about *scientific method* than almost any other topic. In point of fact scientific method is but rarely discussed in scientific circles, though every politician, planner, sociologist, and other variety of pseudo-scientist is perpetually murmuring this invocation to the 20th century idol.

Bridgman once remarked that science is the activity practiced by the thousands of people who call themselves scientists and that scientific method encompasses all the idiosyncratic methods used by all these people. The remark was only mildly ironic. In more serious vein, one of my colleagues, Professor Koenig, has said:

"The activity of science is partly (usually largely) conscious, and in its conscious aspect is systematic rather than haphazard. Furthermore, it employs method—which involves observation, experiment, creative imagination, logic, and luck."

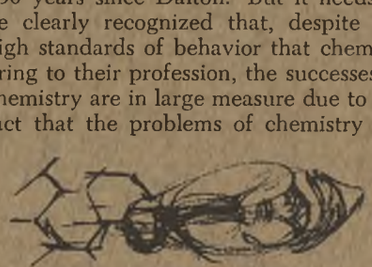
The plain facts are that the scientist pursues his enquiries in ways which are in no fundamental way different from those used by any rational human being: he thinks, he plans as well as he can, and then he acts. What *does* distinguish science from most other human activities is not so much its methodology but the high standard, the ethos of accuracy, that the scientist brings to his work. And this is done not merely because science requires that "the results found by an individual be communicated to and verified by others," for in fact I doubt that more than a tenth of the published results *are* ever critically verified by another person. One of the great glories of science is that this high ethical standard is a response to the faith and trust that we place in the published results of another person. In a world of the sleazy half-truth, of the manipulation of facts and personalities, of the distorted propaganda politely described as news, and of the outright huckster's lie, the ethical standards of science stand out as rocks amid shifting sands.

But science has other qualities, too. As Barnes has said, the scientist's code of ethics has to do "with the way he and his fellow scientists get on with the job, the way they test, record, and share their experiences, the way theory becomes a growing responsive structure in the moving pattern of their lives. They take this way for granted, as being entirely natural behavior. *It is the way of humility.* That is not to say that as persons scientists are humble, but that they practice intellectual humility in their work. They are ready to be taught by experience, *to search out their own errors, to change their ideas completely if the evidence is against them.*" This quality, I fancy you will agree, is notably lacking in many areas of human activity.

Now the qualities of faith and belief, ethic and humility, are qualities that distinguish early Christianity. And, at any rate to me, it is not surprising that many young people, searching for values which you, society, and organized religion in many cases fail to provide, turn to science as a substitute for religion. However limited its scope may be—and I have suggested that it is limited—science, within its own framework, offers opportunity for wholeness, for integrity. Science, moreover, assumes an even more attractive appearance when its fruits, manifested in technology, plainly state that here is a workable and a working philosophy, *producing tangible results.*

ALL OF THIS sounds, and is, attractive, exhilarating, and splendid. But there are pitfalls and dangers galore, of which the following strike me as outstanding. First, it is easy to overestimate —quite grossly—the successes of science.

It is true, for example, that chemistry has been spectacularly successful in the 150 years since Dalton. But it needs to be clearly recognized that, despite the high standards of behavior that chemists bring to their profession, the successes of chemistry are in large measure due to the fact that the problems of chemistry are



basically simple. The problems are simple because by definition they are limited to those for which "the results found by an individual can be communicated to and verified by others."

Massive areas of human activity simply do not fall within those limitations. Some of the most powerful emotions that stir men's souls are not communicable in the sense that scientific results are communicable: many of them escape the most golden notes of the poet. There is no equation to express how my heart stirs to the trill of the nightingale; there is no formula that encapsulates the love that I feel for my wife and family; there is no quantum theory that describes the hate I can generate toward my enemies. Though scores of anguished freshmen would no doubt rise up in wrath for my saying so, science so limits the range of its activities that by comparison with the problems involving human beings, those of science seem almost trivial—in themselves, *though not, I am sure, for the lessons to be learned from their solution.*

With the serious limitations it imposes on itself, that science succeeds so well in these simple problems should occasion neither surprise nor undue adulation. We can predict with only the most trifling risk of error what will happen to 6×10^{23} molecules of hydrogen when I mix them with oxygen and pass them over a platinum catalyst. God made molecules so small and He made so many of them, that so far as molecules are concerned statistics becomes a matter of almost complete exactitude. Moreover, so far as we know, the idiosyncrasies to which molecules are liable are extremely limited.

In contrast, I fail miserably to predict how I, or my 180 million fellow citizens, will react tomorrow toward a neighbor who does something to irk us. My personality, and yours, are so complex that our emotions are not susceptible to any deep statistical treatment. It is, therefore, unjustifiably optimistic to assume that the successes of science should be transferable to other human activities by following the methodologies of science.

Many scientists, I fear, contribute to the mischief of persuading the public that science and its methods have much to say about improving the human lot. There is a real danger, it seems to me, that in staying within the law of custom and procedure which has grown up in science the scientists may behave in a fashion that has much in common with the behavior of the Pharisees—who were also, you will recall, a custom- and law-abiding people. We work so well within our narrow confines—wearing blinkers, if you will, to obscure those things which would distract us—that we can easily become as pride-swollen as the Pharisees became, that we assume our custom and law are the answer to *all* problems. From this step it is but a step to forget that we are even wearing blinkers. There are scientists—mercifully not too many, although some of them exert a powerful influence—who feel that they are the people to put right the world's ills.

A person more singularly *unfitted* for dealing with human and political problems than the scientists, per se, it would be hard to find, and I take no comfort—indeed quite the reverse—in the emergence of the scientist-politician. To the extent that *as a man* he brings to human affairs the nearly vanished virtues of accuracy, open-mindedness, and humility, the scientist, of course, may make enor-

ous contributions to man's welfare; but less *as a man* he also brings to these problems metaphysics, pity, charity, and alues relating to what is good (as well as hat is accurate), the scientist is on the hole, in my opinion, a dangerous eddler.

This is particularly the case, I think, because in science it is all too easy form wrong impressions about the na- re of experiment and to assume that be- use one can often with great success roceed from the small-scale experiment science to the large-scale enterprise of chnology, then one can do the same nd of scaling-up in other areas. Actu- lly, however, as Yarnold points out: "The acts which it is desired to observe (in an speriment) are not directly available to he student without *some manipulation of the material, or some interference with nature itself*. That is to say in general that

t is necessary in most scientific work to mpose certain selected and arbitrary con- itions of an arbitrary character on the aterial under consideration."

When the interference with nature in- olves only interference with inanimate nature the result may not be serious. But when, under the guise of science, one ries to perform experiments with human beings the result may be very serious. The type of mischievous interference that I have in mind here is characteristic of much so-called testing carried out by so- ciologists. The form of the question (*i.e.*, the experiment) by which the social sci- entist frequently attempts to obtain infor- mation may be so loaded with pre-judged values as seriously to interfere with the standard of values of the subject. The results of such sociological experiments as progressive education, Kinsey reports, etc., unquestionably point to serious inter- ference, often irrecoverable, with stand- ards and values.

This is not to deny the validity of ex- periment; it merely illustrates the common misconception of the nature of experi- ment, and serves as a warning against proceeding to experiment without more forethought than is generally undertaken.

A third danger is that the general pub- lic, and even more so the young student, may mistake shadow for substance and assume that because science is, on the whole, orderly and well-regulated, then its technological fruits will necessarily be handled in a well-regulated, wise fashion. Worse still, there is a danger that students may view the technological advantage as the *major* value of science. By virtue of his *training* the young scientist is able to carry out the basic studies which make technological advance possible; but at the same time he is generally so uneducated in values as to be unequipped to tell his fellow man how to use the technology wisely. If he is brought up in what Professor Phenix describes as the "democracy of desire" rather than a "democracy of worth," he is left floundering in a situation which he has neither knowledge nor desire to control.

In writing of the technological upheavals of mid-Victorian Britain, Arthur Bryant wrote: "Disraeli laughed at a society which, having mastered a few scientific principles, mistook comfort for civilization. Material progress means nothing for man—a spiritual being—if not accompanied by moral purpose and enlightenment. Otherwise the gifts with which science was enriching humanity would prove not the instruments of life but of destruction. The tendency of the age was to emulate the scientists and measure all things by material rules, forgetting that more than half of man's nature and existence could not be measured by any such rule." This country, which prides itself on modernity, has largely mid-Victorian standards regarding technology and its uses.

I am concerned that the narrowing of the gap between science and technology has not been accompanied in colleges and universities by an insistence on education in values and morals to enable the student to make a clear distinction between the two and to ensure that he not only has the intellectual capacity to deal with the one but that he also has the wisdom to cope with the other.

It may be that the parallel is a little far-fetched, but it seems to me that much of the genuine fervor and drive in science during the past hundred years, the faith and devotion to an ethos, have a lot in common with the drive characteristic of the early Christian church from which, following the Reformation, modern science, at least in some men's opinions, derives. In the early days of the church *religion was an activity*, much as Barnes has characterized science. In the eyes of many—and in mine—the trend of the last 1,600 years has seemed to be a gradual hardening of faith and activity into a harsh, intense preoccupation with the technological results of religious faith. Infatuation with buildings, churches, external appearances, has made it more important to have a plushy palace for a one-hour-a-week Sunday service, coupled with literal hell-raising for the remainder of the week, than to make oneself the temple in which love of God and love of one's neighbor finds room to work.

Science, and more particularly its academic guardians, it seems to me, need to be alert that preoccupation with technology does not produce the same fate in science. So far, I see little sign that academic scientists are seriously facing up to the problem. After years of famine we find ourselves in a land of such plenty that our immediate concern to be busy pushing back the boundaries of ignorance at the public expense prevents us from seeing the directions in which we are and should be heading. In spite of all the millions spent on scientific technology in the post-war years, only a handful of colleges in this country have chairs devoted to the history of science—and Stanford is not one of that handful.

Moreover, although the scientific curriculum has been progressively extended there has been no serious attempt made to ensure that this extra scientific training is counterbalanced by additional training in the subjects in which values other than accuracy are emphasized. Quite the reverse, in fact. We used to complain that our freshman students came to us so uninformed that we had to spend all our time teaching them factual material to erase their ignorance, leaving no time for the ideas and values that can be abstracted and distilled from those facts. In the past few years there has been some enlargement of the factual knowledge possessed by the incoming freshman, but what advantage have colleges taken of this?

We have reduced the elementary content of the freshman courses and moved some graduate work down to the undergraduate curriculum. There is in practice no more leisure now than there was ten years ago to spend time with undergraduates on the values and abstract ideas on which a worthwhile life ultimately depends. We spend so much time teaching science to students that we have no time to teach them what science is basically all about.

In the present state of society it seems almost inevitable that technological advances will continue. These have the possibility of good or evil for us. If their effects are to be good they must be used wisely. But to use a gift wisely in the human context means that we must have standards of value and moral worth

against which we can measure the wisdom of any proposed course of action.

Yet it is precisely in the matter of values that science is weakest: though it demonstrates a high regard for the value of accuracy, this is about its only value-content. For the many other values we must look outside science to history, philosophy, the arts, and theology. It seems to me inevitable, therefore, that if as a nation we are to move to still greater levels of technology we must take out insurance against moral disaster by making certain that our scientific effort is paralleled by education in values.

PERHAPS it sounds odd to you that as a scientist I am advocating an expansion of what are loosely called the humanities. My reasons for doing so are mixed, but I think they contain the following elements. First, as an academic scientist I am deeply impressed with the enormous progress that can be made in problems—albeit they are limited in scope—when they are tackled with devotion, regard for accuracy, and humility. Although a purely secular subject, science as an activity is carried out in a manner which embraces many of the virtues of true religion—indeed it is close to being the last secular stronghold of typically religious virtues. This needs to be assimilated in our culture, and it is the job of the humanities to undertake this assimilation.

Yarnold properly says: "We hope to see an authoritative work which does for natural science what Toynbee has done for history, [even though] not all historians and philosophers agree with the point of view to which Toynbee's monumental study leads him."

This is a task for the humanities, not merely because scientists are too busy being scientists to undertake the job, but because it calls for knowledge outside their professionally narrow field. If universities are to serve as the custodians, digesters, and transmitters of our culture, the humanities as a whole must really wake up to the large segment of cultural heritage which is now properly due to science. This means that universities must provide for scientists with the talent *and the freedom* that are needed to incorporate the values and beauties of science into our culture. I offer the solution in this way because—snobbishly, maybe—I despair of any present-day non-scientist ever learning enough about science to make an intelligent contribution in this highly technical field. It means that in universities there must be at least a few places for the scientist who spends the major part of his time outside the laboratory—though I believe that the moment he ceases to spend *some* time in the laboratory he ceases to be a scientist.

The fashion of the times is currently inhospitable to this notion. By and large it is, paradoxically, easier to be a historian of science in a history department than in a science department. My earnest hope is that the smaller colleges of this country, where graduate study and institutional research are not the "big business" that they are in large universities, may seize this opportunity to put their scientists to this most important task, though all the signs indicate that they simply desire to get into large-scale research activities. I have the feeling that it will be easier for the young, well-trained scientist to develop the necessary extra-scientific talents in smaller colleges than in large universities.

In advocating an expansion and intensification of the humanities I am, however, explicitly advocating that attention be paid to the reasons why science has been successful and why, by comparison, in my opinion, the humanities have seriously lost ground in influencing students' minds. The humanities, it seems to me, would do well to reflect that science is humble even about what it can describe accurately and still more humble where it deals with things that are tentative or hard to verify. Just because many of the values and judgments with which the humanities deal are by their nature only partially communicable and particularly difficult to reproduce and verify, it is all the more necessary that there should be a modesty and humility in the manner in which they are expounded. Yet, viewing much work in the humanities as an outsider and at least some work in theology as an insider, I am acutely conscious of a great mass of *opinionated assertion*. If the humanities are to emphasize values—and I am convinced that they must—it is essential that a more dispassionate appraisal be made of the grounds for assertion.

Science, no less than the humanities, has to proceed from a core of faith and belief, but this core is buttressed, enriched, and *frequently pruned*, by forming the basis of a *working philosophy*. When we teach scientific principles to young students we do so because we fully expect them to go out and put those principles into *active endeavor*. Because of this we have the chilling awareness that the fruits of our teachings may be realized in a short time—and this is a sobering draught to the potential scientific irresponsible. The mere fact that science has rather immediate technological consequences, although a source of genuine hazard, is also a useful warning against reckless and irresponsible spawning of invalid principles.

Looking at society today, where bad social behavior, selfishness, and immorality abound and where moral standards and values seem to be determined by the norms of the sociological enquiry rather than by high-minded idealism, I believe one can be pardoned for thinking either that the humanities signally fail in their job of implanting values in the minds of the young or that they have relinquished their beliefs that values have any technological consequences in the lives of human beings.

Though I have suggested that in the sciences there is real danger of *preoccupation* with technological consequences, I have the feeling that in the humanities there is serious *underoccupation* with the technological consequences of teaching. I hope that I am wrong in my diagnosis, as I hope that my non-scientific colleagues will in charity forgive my errors, but much of the modern theology and philosophy that I read seems to be written in a technological vacuum—as if the authors were not sufficiently serious in their purpose to expect people to put into practice the principles they induce or postulate. I recognize that human problems are of an entirely different order of magnitude of difficulty from scientific problems. I recognize the difficulties of making original contributions or first-rate re-interpretations in the humanities; but I recognize that this must be done and I believe that the humanities must *seriously* assume the burden of implanting values, hoping, indeed expecting, that men and women will make technological use of those values in their everyday lives.

HOWEVER SCHOLARLY one may be in the tradition of the ivory tower (which, incidentally, is a relatively new concept in the long history of academies), *universities have no basis for justifying their existence on anything less than the three functions that I mentioned in the beginning*: the storage, manufacture, and transmission of ideas. One certainly cannot transmit ideas unless one is to some extent involved in their generation; this is the valid basis for insisting that all teachers must have at least one finger in the research pie. Equally, one fails to transmit ideas if one becomes overoccupied by the storage and generation of ideas.

Universities, I insist, are not places where scholars are entitled to practice their own selfish pleasures with ideas: they must contribute to the public good. Whereas in science, I believe, universities have become almost too concerned with the fruits of their labors, in the humanities, I suggest, they are not shouldering the responsibilities as they should. The problems of this nuclear-powered, outer space age cannot wait very long for that responsibility to be properly resumed.

Academic Freedom: Enterprise in Ideas

(Continued from page 21) the American college was on teaching, most of which was done by the method of mechanical recitation, within a rigidly fixed curriculum. There were exceptions, but as roughly typical of the dominant attitude we may note that in 1857 a committee of the Board of Trustees of Columbia College, examining into the low state of their institution, cited as a possible cause of weakness the alarming fact that three of their professors had spent time *writing books*! (W. P. Metzger, *Academic Freedom in the Age of the University*, p. 12.) What a dereliction of duty, what a perversion of the teacher's time—to do research and write books instead of supervising recitations!

Harvard, Yale, and Princeton were at that time somewhat more advanced, more sympathetic to the importance of seeking and imparting new knowledge, but we recall the remark of Henry Adams, who graduated from Harvard in 1858, that "The entire work of the four years could have been easily put into the work of any four months in after life." (*Education of Henry Adams*, Ch. IV.)

IT WAS AFTER the Civil War in America, in the last hundred years, that the situation changed rapidly and radically. The university replaced the college as the dominant force in American higher education; the curriculum was broadened; along with the introduction of the elective system at the undergraduate level, there was vastly increased emphasis on the sciences; graduate study was introduced and developed; and search and research came to be recognized as a primary function of the university professor.

How recent in origin this whole development has been is reflected by the fact that the first American PhD degree was awarded in 1861 (prior to that date American students seeking doctor's degrees had to go to Europe); by 1871 there were only 198 graduate students in all American universities together; by 1890, the graduate population of the country had grown to nearly 3,000, but only 164 doctor's degrees were awarded that year in the whole United States. (Metzger, p. 104.)

Along with these developments, and due largely to the conception brought back from the German universities, that the scholar's function was not simply to conserve and transmit established knowledge to his students, but also to extend the bounds of knowledge by new discoveries, there went another development—namely a growing concern with the problem of protecting the scholar in the prosecution of his researches from the obloquy that novel or unpopular findings might bring down upon his head. This was the immediate origin, in modern times, of the problem of academic freedom as we know it today.

The German concept of the university was, quite naturally, modified to some extent on being transplanted to this continent, but certain basic notions persisted. Professor Metzger, in his historical account of the development of the idea of academic freedom in the American university, remarks that:

> If one were to single out the chief German contribution to the American conception of academic freedom, it would be the assumption that academic freedom, like academic searching, *defined* the true university. (P. 119.)

In other words, an institution no matter how well provided with students, faculty, and facilities, which lacks freedom of opinion for the scholar-teacher, is not, in the true sense, a *university*. Jefferson had, in the early years of the 19th century, formulated the idea of freedom in simple and eloquent terms in his famous prospectus for the University of Virginia; but the idea did not take root until it was, as it were, reimported later from the continent of Europe and replanted in American academic soil after the Civil War.

AT THIS POINT we have an intellectual ideal, stated in general terms and requiring (as all ideals require) more specific formulation and implementation, a process which in this instance is still incomplete. Space does not permit me to trace the historical course in any detail. Suffice it to say that the principle of academic freedom has made headway slowly but steadily since 1900, though not without serious opposition from boards of trustees and university presidents, who sometimes were reluctant to see their powers of hiring and firing faculty members abridged.

What happened was, in general, what one might have expected in such a situation. Several cases occurred in which professors were dismissed, or in which their dismissal was threatened, apparently not for incompetence or misconduct (against neither of which, of course, does the principle of academic freedom offer protection), but for voicing unacceptable opinions. Some of these cases attracted wide attention. I may mention simply as examples, the Ross case at Stanford in 1900, which was a *cause célèbre*; the case of Bassett at Trinity College (now Duke University) in 1903; the Mecklin case at Lafayette in 1913; and a number of cases which arose during the first world war when clamors were raised against men at a number of universities who were suspected of pro-German or pacifistic sentiments.

Not all these cases by any means resulted in dismissals, but they served to make clear that there was as yet a considerable uncertainty as to the basis and scope of the principle of academic free-

dom and a great diversity in practice as to its application and implementation.

One response to this situation was the formation in 1914 of the American Association of University Professors, among whose main objectives was to clarify and codify for the benefit of the teaching profession the related principles of academic tenure and academic freedom for college and university teachers. The first report on this subject, submitted by a committee in 1915, attracted wide attention (and some controversy) but ultimately became, subject to amendments made in a new statement of 1940 concurred in by the Association of American Colleges, the basic formulation of the principles by which most American colleges now abide.

The original report dealt with four general problems: the matter of high-handed dismissals of college or university teachers, without cause and sometimes without a hearing; the vagueness of many academic appointments with respect to term and status; the need for establishing and accepting professional standards of academic freedom. Professor Metzger summarizes the aims of the original report:

> Academic freedom was the end; due process, tenure, and establishment of professional competence were regarded as necessary means. (P. 207.)

The provisions promulgated by the AAUP and now generally accepted (sometimes with minor modifications) by the leading universities of the country are practical rather than theoretical. Their effect is, in general, to provide that academic appointments in colleges and universities shall be either permanent or for a clearly specified term of years; that dismissal before the expiration of the specified term must be for adequate cause and subject to the right of the accused to a hearing and an opportunity to defend himself if he wishes; that the permissible causes for such dismissal be limited, broadly speaking, to incompetence, neglect of duty, or misconduct involving moral turpitude. There are other provisions and limitations, but these are the ones bearing most directly on academic freedom.

While such provisions as these are not legally binding on any university which has not specifically agreed to them, they nevertheless set a pattern of practice and expectation which, being backed by the prevailing opinion of the profession itself, has considerable strength.

So the matter stands today. But it remains to consider the *rationale* of academic freedom and its justification. We have on the one hand a general statement of principle—namely, that academic freedom is vital to the university. But this principle is of comparatively recent origin, and its scope and limits have not yet been entirely settled.

We have, on the other hand, a set of practical rules designed to implement the principle. But since, as Kant observed, there is no rule for applying a rule, the accepted rules about tenure and dismissals permit a certain flexibility of application. We are brought back, I think, to the question of *attitude* with which I began. To achieve actual freedom you need more than an intellectual principle and a set of standard operating procedures. You need to be as clear as possible about the grounds underlying the relevant principle, and you need to consider also the kind of conviction and commitment necessary to transform abstract rules *about* freedom into the actuality of freedom.

The rationale of academic freedom

At the simplest and most practical level, it may be said that freedom of inquiry and opinion is to the scholar what free enterprise is to the business man. It is difficult to run a business effectively if the government is breathing down your neck, or if a superior officer is always looking over your shoulder waiting to catch you out if you say or do anything which he does not immediately approve. Any man in any calling has to do his job in his own way if he is to do it effectively, and he must have enough latitude to make this possible. Without this, he becomes an automaton, deprived of opportunity to exercise imagination, originality, force, drive, or initiative.

These are qualities that make for success in most lines of endeavor; they are especially necessary in teaching. If you wish to convert a potentially lively and imaginative teacher-scholar into a pedant, a good way to do it is to insist that he think nothing and say nothing but what is safe, sane, innocuous, and guaranteed to bother nobody.

Of course the teacher is subject to limitations; just as the principles of free enterprise in business involve limitations. In both cases alike, we assume honesty, sincerity, and responsibility. Admittedly, these assumptions are sometimes violated. No advocate of free enterprise in business would deny, I think, that abuses can take place, that some men are dishonest and irresponsible. But it would be argued, I believe, that since *any* freedom may be abused, the possibility of abuse is no ground for withdrawing the general freedom where the system requires such freedom in order to operate effectively. And one might refer, I think, to our experience with Prohibition—the "noble experiment"—as a case in point. Because some people abused the right to drink, freedom to drink was denied to everybody. But the cure was worse than the disease, and we learned, through rather bitter experience, that it was better to risk the abuses and to deal with them on an individual basis than to deny the liberty itself.

In a society which values the principles of free enterprise in the business world one might suppose that the same principles would be applied without difficulty to the enterprise of the teacher-scholar. But at this point we encounter a paradox. Very few of us seem to be consistent "individualists" or "collectivists." Instead, we tend to be individualists in one area and collectivists in another. Those whom we think of as belonging to the right wing, or "conservative" camp, tend to defend individual freedom in the economic sphere against public encroachment, while the left wing "liberals" tend to accept governmental regulation and control. But in the areas of thought and expression their positions tend to be exactly reversed. Here the left wing liberals rally to the defense of the individual's right to express his opinions, while the right wing conservatives tend to favor the imposition of controls. Relatively few people seem disposed to take the side of individual freedom in *both* areas at the same time, with equal fervor.

Without pursuing this point, we may note that a general belief in the value of

individualism" seems too vague to supply a definite and useful criterion of the kind and degree of freedom to be allowed in concrete situations. Although we often view questions of freedom as involving an ultimate opposition between the individual on one side and the group on the other, the fact is that there are usually individual interests on both sides of an issue, so that what is called for is not merely a vindication of the right of the individual against group pressures for conformity, but a judicious balancing of individual rights and interests to achieve the greatest benefit for all in the long run. For this purpose, it is always necessary to consider the nature of the particular enterprise in question.

In Campanella's *Defense of Galileo* (1622) there was put forward an eloquent plea for *libertas philosophandi*, or, as we should call it, freedom of inquiry. Campanella's book has been described as "the first reasoned argument to be published in support of the freedom of scientific investigation" (Hofstadter, p. 57, quoting Robert B. Sutton, "The Phrase *Libertas Philosophandi*," Journal of the History of Ideas, XIV, 311). It had little effect in its day, but the validity of the central thesis came little by little to be accepted: the seeker after truth must be free to follow, without fear or favor, wherever his investigations lead.

This ground of freedom does not rest on a concern for the rights of the individual, as such, but is derived from the nature of the enterprise in which the scholar is engaged. It is consistent, of course, with a humanitarian outlook, because it shocks our moral sense to see any man hounded as Galileo was on account of his beliefs. But the notion that the pursuit of truth demands freedom adds another consideration which applies with special force to the scholar. This is, I believe, the fundamental ground for academic freedom. We protect the scholar not simply because of his status as an individual human being, but for the sake of the cause to which he is devoted.

We should note also that this ground applies not only to the discovery of new facts or new scientific theories, but also to the development of new perspectives and new insights in non-scientific fields. Whitehead argues that

> . . . All points of view, reasonably coherent and in some sense with an application, have something to contribute to our understanding of the universe, and also involve omissions whereby they fail to include the totality of evident fact. The duty of tolerance is our finite homage to the abundance of inexhaustible novelty which is awaiting the future, and to the complexity of accomplished fact which exceeds our stretch of insight. (*Adventures of Ideas*, Ch. IV.)

This, I think, is the affirmative case for academic freedom. It is no accident, then, that concern for it should have crystallized at the time when American universities turned their attention toward the advancement of knowledge and combined teaching with the function of research. For it is the activity of searching, and stimulating others to further search, that calls for the widest freedom of inquiry.

It may be objected that if this is the ground of academic freedom, it should apply only to research activities and not to teaching. The answer is that although this distinction might be maintained if teaching were conceived as indoctrination, it has no application if we conceive that teaching should encourage critical thinking. One cannot teach a student to think for himself by insulating him from dangerous or dubious ideas. Instead one must follow Mill's maxim that "He who knows only his own side of the case, knows little of that."

We must remember also that teaching is by example as well as by precept. Hence, a university which professes to believe in the value of free inquiry must exemplify this belief in the conduct of its own affairs. As pointed out at the beginning of this paper, the establishment of freedom requires more than its intellectual defense; there is need also for an attitude of positive tolerance toward unorthodoxy if the objectives of education for a free society are to be attained.

A more difficult question arises with respect to the right of a professor to speak his mind on subjects outside his field, and outside his laboratory or classroom. In his report for the year 1916–17, which has become a classic statement on the subject of academic freedom, President Lowell of Harvard took the position that under such circumstances the professor speaks only as a citizen.

The assumption here is that *libertas philosophandi* gives a special right to the scholar only within his chosen area of competence. At the same time, Lowell argued that the professor should have the same right to express his private views that any other citizen would have. Granting that a faculty member might do harm to his institution in such cases, he contended that greater harm would be done if attempts were made at restraint. In this connection he remarked that,

> If a university or college censors what its professors may say, if it restrains them from uttering something that it does not approve, it thereby assumes responsibility for that which it permits them to say. This is logical and inevitable, but it is a responsibility which an institution of learning would be very unwise in assuming.

He added also a general statement on the subject of responsibility:

> But it must not be forgotten that all liberty and every privilege implies responsibilities. Professors should speak in public soberly and seriously, not for notoriety or self-advertisement, under a deep sense of responsibility for the good name of the institution and dignity of their profession. They should take care that they are understood to speak personally, not officially. When they so speak, and governing boards respect their freedom to express their sincere opinions, as other citizens may do, there will be little danger that liberty of speech will be either misused or curtailed.

I shall conclude with the general observation that in dealing with concrete instances of academic freedom, especially in difficult cases where feelings may run high, it seems wise to look beyond the pressures of the moment and to consider what action will seem to have been right in retrospect (as far as one can judge) after the lapse of ten or twenty years.

If one looks backward today at some of the celebrated controversies over academic freedom which have occurred since the beginning of the century, it seems generally to have been the case that more damage was done to the institutions which dismissed faculty members for expressing unacceptable opinions than would have been done had they been able to ride out the storms.

Strictly Personal

1909

DAUGHERTY—Robert L. Daugherty, Engr. '14, professor of mechanical engineering, emeritus, at the California Institute of Technology, has been reappointed for a fourth three-year term as a member of the Air Pollution Control Hearing Board of Los Angeles County.

1913

Stanford Class of 1913
50th Reunion
May 25, 1963

BEECHER—Charles Edward Beecher, Engr. '14, has received the 1962 John Franklin Carll Award of the Society of Petroleum Engineers, Los Angeles. The citation read: "In recognition of his pioneering reasearch, which was one of the foundations of modern reservoir engineering, and of his continuing interest and leadership in improving all phases of petroleum production technology."

1917

Marriages

HOGAN, Ida Hollister—See Stebbins-Hogan, Class of 1919.

1919

Marriages

STEBBINS-HOGAN—Barton Abbey Stebbins to Ida Hollister Hogan, '17, Nov. 9 in Yuma, Ariz. They will live in Los Angeles.

1924

PARKS—Ernest K. Parks recently received the "certificate of service" of the Society of Petroleum Engineers in Los Angeles. The citation read: "For outstanding service to the petroleum industry as a pioneer consultant and for distinguished achievement in the engineering profession and the Society of Engineers of AIME as a leader, author, administrator, and practicing engineer."

Marriages

McARTHUR-HICKEY—Catharine Ewell McArthur, AM '26, to Harold N. Hickey, Dec. 20 in New Orleans, La. They will live in New Orleans. The groom is an executive of Standard Oil Co. of California.

1926

BOUNDS—Doris Swayze Bounds, executive vice-president of the Inland Empire Bank, Hermiston, Ore., has been elected treasurer of the Oregon Bankers Association and is serving on the executive board of the National Association of Bank Women.

1927

JAMIESON—Margaretta Stroup Austin Jamieson lives in London and is chairman of the Commonwealth Art Loans and Exhibition Committee of the English Speaking Union. She also is on the executive committee of the Friends of St. John's and the council of the American Museum in Britain.

1929

REILY—John M. Reily has resigned as vice-president and treasurer of the Carnation Co. to devote full time to personal affairs.

1930

GOODCELL—Don H. Goodcell has been promoted to director of public services for the *San Bernardino Sun-Telegram.*

1931

McAFEE—William Arthur McAfee has been named executive vice-president and director of California Texas Oil Corp. He had been assistant vice-president, foreign, of Standard Oil Co. of California, one of the parent firms.

1932

NISSEN—Clarence R. Nissen has been appointed vice-president, finance, at Oliver Tire & Rubber Co., Oakland. He has been the firm's treasurer since 1959.

WILSON—L. Kenneth Wilson, consulting geologist, has been elected president of the Northern California Geological Society.

L. Kenneth Wilson
Class of 1932

William A. McAfee
Class of 1931

Clarence R. Nissen
Class of 1932

Henry North, '39, posed with the women in his family while on a ski trip to Austria. He has been living in Lausanne, Switzerland, since selling his sliding door firm to the Northrop Corp. in 1961, but plans to return to the U.S. this fall. His wife is the former Janith McIntyre, '39.

1934

BARNES—Frank P. Barnes has been promoted to vice-president, director of telecommunications marketing, of International Telephone and Telegraph Corp. He joined the firm a year ago and earlier had been with RCA and General Electric.

1935

COTTON—John Cotton of the San Diego real estate firm of O. W. Cotton Co. has been admitted to membership in the American Society of Real Estate Counselors.

GROS—Robert R. Gros, vice-president of Pacific Gas & Electric Co., has been named to the board of trustees of Golden Gate College, San Francisco.

Marriages

PETERSEN-BARDELLA — Claire Mitchell Petersen to Darrell Bardella, Dec. 15 in Carmel.

1936

HELLYER—William S. Hellyer is on the board of directors of the San Bernardino Civic Light Opera Association.

1937

STONE—Elizabeth Wenger Stone, AM '38, has been appointed administrative assistant to the head of the department of library science of the Catholic University of America, Washington, D.C.

1938

MARSH—U. Grant Marsh has been transferred from Honolulu to Los Angeles by the

To catch an atom...

Did you know that only one in every 140 uranium atoms found in nature can be split to produce usable nuclear energy? It takes fantastically intricate equipment to capture these elusive atoms. The people of Union Carbide are doing it in a plant at Oak Ridge, Tennessee, large enough to hold 35 football fields. ▶ Many people thought the uranium separation process too complex to work. For example, pumps had to be developed, that run faster than the speed of sound . . . filters made with holes only two-millionths of an inch across. Union Carbide scientists and engineers not only helped design such a plant and made it work, 20 years ago, but they have been operating it ever since. Union Carbide also operates other vital nuclear energy installations for the U.S. Atomic Energy Commission. One is Oak Ridge National Laboratory, the largest nuclear research center in the country. ▶ To handle such big research and production jobs requires big, experienced industrial companies. It is only because of their extensive resources and skills that it is possible to take the giant steps needed to bring laboratory developments to full-scale production quickly and successfully.

A HAND IN THINGS TO COME

UNION CARBIDE

WRITE *for the booklet, "Union Carbide's Twenty Years in Nuclear Energy."*
January 18, 1963, marked the 20th anniversary of the Corporation's work at Oak Ridge.
Union Carbide Corporation, 270 Park Avenue, New York 17, N. Y. In Canada, Union Carbide Canada Limited, Toronto.

Procter & Gamble Distributing Co. He will manage one of the sales organizations in the Case Soap Department.

1939

BRADFORD—Brenton B. Bradford has been elected president of the 800-member Valley Children's Hospital and Guidance Clinic at Fresno. He is with the accounting firm of Bradford, Stark and McGee.

HELLER—Milton F. Heller Jr. has been elected a partner of Cresap, McCormick and Paget, international management consulting firm. He will be with the Western Division with offices in San Francisco and Los Angeles.

1940

BOLT—Robert B. Bolt has been transferred to San Francisco as manager for the Life Insurance Co. of North America. He earlier had been manager of the San Jose service office.

GOETZE—William E. Goetze, vice-president of Time-Life Broadcast, Inc., and general manager of KOGO-TV, San Diego, has been appointed to the board of directors of the 22nd District Agricultural Association. The Association administers the Southern California Exposition and is landlord to the Del Mar race track.

SISSON—Daniel W. Sisson is president and chief executive officer of Sisson & Nair, Inc., a new stock brokerage and investment banking firm with offices in Redwood City and San Francisco. He earlier was with Hooker & Fay, Inc.

1942

ZIMA—Dr. Gordon E. Zima has joined the chemistry department of the University of

REALTORS

HOMES & INVESTMENTS
INSURANCE
MORTGAGE LOANS
PROPERTY MANAGEMENT

9 Stanford grads associated with

HARE, BREWER & KELLEY, INC.

Since 1925

DA 3-5155 ■ 525 University Ave., Palo Alto

HIE AWAY RANCH

High among the redwoods
and sunny mountain meadows

CALIFORNIA'S NEWEST RANCH-RESORT CLUB

Week and weekend leisure living for all the family
Franklin and Virginia Wood
504 Comstock Lane, Santa Cruz, Calif. 423-5553

FRANK P. BARNES
Class of 1934

JOHN COTTON
Class of 1935

ROBERT R. GROS
Class of 1935

California Lawrence Radiation Laboratory in Livermore.

Births

HOWELL—To Mr. and Mrs. William R. Howell, '42 (Suzanne Williams, '47), their fifth child, a daughter, Honora Maureen, Dec. 27 in Pasadena. She joins Victoria, 11, Constance, 8, Patrick, 5, and Angela, 4.

1945

Births

GRIMES—To Mr. and Mrs. George E. Grimes, '45, AM '48 (Joan McDonough, '46, AM '47), their sixth child, Matthew, Dec. 13. He joins Stephen, 10, Deborah, 9, Edward, 7, Kenneth, 5, and Jennifer, 3. The father is labor relations representative for Lockheed in Sunnyvale.

1947

BROWN—John Quincy Brown Jr. has been admitted to partnership in the Sacramento law firm of Bradford, Cross, Dahl & Hefner. He is a member of the board of education of the Sacramento Unified School District.

MATTIMOE—John J. Mattimoe has been appointed manager of the hydroelectric construction department of the Sacramento Municipal Utility District.

MOLLER—Frank D. Moller Jr. recently resigned his position in financial management at Shell Oil Co. in New York to return to California and has joined the Granite Construction Co. in Watsonville as controller.

1948

EHRHARD—Hugh Bert Ehrhard, AM '51, is a microbiologist in the laboratory field services office of the State Health Department in Berkeley. He lives in El Cerrito.

1949

BECKWITH—Richard E. Beckwith, MS '54, joined the faculty of the University of Southern California in September as associate professor in the Graduate School of Business.

CAPRIO—Russell R. Caprio, a representative of the San Francisco general agency of National Life Insurance Co. of Vermont, has earned membership in the firm's 1963 President's Club.

COOK—Robert L. Cook, AM '50, is teaching at the University of Arizona while working for his doctorate in school administration. He is on sabbatical leave from his post as school principal in Sunnyvale. He and his wife, the former Constance Sheehan, '49, have two children.

WHARTON—James F. Wharton has been promoted to Pacific Regional manager for the nine Western states by the Minute Maid Co., and will be headquartered in San Mateo.

Marriages

WOODWARD-ROSBURG — Robert H. Woodward Jr. and Carolyn Morrison Rosburg, both Class of 1949, were married Dec. 11 in the Stanford Memorial Church. They will live in Palo Alto.

Births

EDWARDS—To Mr. and Mrs. William E. Edwards, '49, MS '50 (Patricia Lou McDermott, '50), a son, Bradley William, Jan. 16. He joins a sister, Susan, 3½. The father is district engineer for Bethlehem Steel Co. in Torrance, Calif.

1950

PECK—Kendall Robert Peck has been appointed general sales manager of Kaiser Steel Corp.'s fabricating division. He earlier had been general sales manager of the Montebello, Calif., plant, and now will be at the general offices in Oakland.

REYNOLDS—Rodney W. Reynolds has been promoted to the post of investment manager by Prudential Insurance Co. He is in charge of the commercial and industrial loan department in San Francisco.

Marriages

HAKE-PETERSON—Harry W. Hake to Joan Peterson, recently in Ventura. They will live in Ventura.

JAIDAR-COX—George N. Jaider to Stella Cox, Dec. 8. They will live in Berkeley.

Births

SMITH—To Dr. and Mrs. Alvin F. Smith, '50, a son, Mark Jay, July 26 in Milwaukee. He joins a sister, Robyn, 5. The father recently completed his pathology residency at the Veterans Administration Center, Wood, Wisc., and is serving on the hospital's staff.

1951

CLASS PRESIDENT Chuck Getchell has asked Joe Cusick to organize a class executive

mmittee and implement his "Proposal for e Continuing Management of Class Affairs." usick introduced the proposal at the Class eaders' Workshop held at the Campus Conrence in 1962.

Five members of the class who live in the ea convenient to the campus will serve minal five-year terms from reunion to reion. The Excom's function will be to ornize and conduct the affairs of the class on continuing basis, including the planning of unions and other class affairs, and class parcipation in the Stanford Fund.

In addition to the campus-oriented Excom, presentatives will be appointed from areas tside the San Francisco Peninsula. Any lass member willing to serve in this capacity requested to contact Joe Cusick, c/o Stanrd Alumni Association, by June 1.

AILEY—Ann Elliott Bailey is completing er third year on the executive board of the eattle Art Museum Guild. She and her husand, Phil, '50, live in Bellevue with their wo children.

ECK—Alan E. Beck, MBA '53, has been romoted to manager of Wells Fargo Bank's 2nd-Webster branch in Oakland.

RAWFORD—Wayne Marshall Crawford as been named director of sales of Flexees nternational, Inc., manufacturer of women's oundation garments and swimwear.

FARRELL—Walter J. Farrell has been amed operations administrator at Granger ssociates, Palo Alto.

MICHAUD—A. G. Michaud, vice-president f the Draper Cos., has been elected a direcor of the Redwood National Bank, San Raael.

WHITE—Wallace M. White Jr. has joined he writing staff of the *New Yorker*. He had done editorial work for it and had several rticles published over the past three years. He earlier had been on the staffs of the *Salt Lake Tribune* and *Gourmet*.

Marriages

SCHMIEDER-OMLIE—Vincent D. Schmieder to Hazel Thora Omlie, Feb. 1 in Lancaster, Calif. They will live in Los Angeles.

Births

EGGERS—To Mr. and Mrs. Sam Eggers (Elva Bricca, '51), a son, Barry Francis. He joins a brother, Alan, 4.

THOMAS—To Mr. and Mrs. Mark Thomas Jr., '51, a son, Ward Foster, Sept. 14 in San Jose. He joins Colleen, 6, Eileen, 3½, and Steven, 2. The father is a member of the law firm of Thomas, James & Pendleton. Paternal grandparents are Mr. and Mrs. Mark E. Thomas, '26 (Helen Chapman, '26).

1952

FAHNESTOCK—John A. Fahnestock has been appointed assistant manager of the Los Angeles northwest brokerage office of Connecticut General Life Insurance Co.

FRASER—Thomas H. Fraser has been elected to the board of governors of the Academy of Television Arts and Sciences in San Francisco where he heads his own industrial motion picture and TV production company.

HAM—Robert K. Ham, MBA '54, until recently assistant to the director of new product development at California Packing Corp., has joined the DiGiorgio Fruit Corp. as assistant to the president.

Marriages

STURDIVANT-HANCOCK—Dr. David Lyn Sturdivant to Dawn Estelle Hancock, Dec. 21 in Riverside. They will live in Chicago where the groom is a pathologist at the Chicago Osteopathic Hospital.

Births

McMAHAN—To Mr. and Mrs. Donald E. McMahan (Janet Thurston, '52), their fourth child, a son, Donald Scott, Jan. 18 in Fruitvale, Idaho. He joins Kevin, 5, Kerrin, 3, and Jonathan, 15 months. The father is co-owner and publisher of the *Payette Lakes Star*, McCall, Idaho, and is also engaged in ranching in Fruitvale.

1953

HUTCHINSON—William Mackay Hutchinson has joined the Collins Radio Co.'s information science center at Newport Beach. He and his wife, the former Jeremy Ann Hamilton, '55, have a daughter, Jenifer Lynne, 4, and a son, Thomas Mackay, 1.

Births

SQUIRE—To Mr. and Mrs. Wayne Squire, '53, a son, Wayne Stanley Jr., Jan. 26. He joins a sister, Linda.

1954

HONSAKER—William G. Honsaker, sales representative in the Los Angeles district office, has been named one of the top 20 salesmen of the Allis-Chalmers Industries Corp.

MEACHAM—David D. Meacham is with General Capacitor Co., Palo Alto, as a project engineer, responsible for designing high-voltage capacitors and pulse-forming networks. He earlier was with Eitel-McCullough, Inc., in San Carlos.

POST—Gayle E. Post has been elected a vice-president and member of the board of directors of Van Nuys Savings and Loan Association.

TANNER—Edwin S. (Ted) Tanner has joined City Transfer and Storage Co., San Francisco, as a sales representative.

Marriages

MYERS-BORKGREN—Ralph Chandler Myers to Rebecca Blythe Borkgren, recently in Hollywood. They will live in Los Angeles.

Have a carefree vacation . . .

we'll "mind the store!" Ask about our Agency Service.

THE BANK OF CALIFORNIA
NATIONAL ASSOCIATION
OFFICES IN CALIFORNIA, OREGON AND WASHINGTON

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

☆ Stanford's Favorite Since 1932! ☆
Refreshments ☆ Dinners ☆ Banquets
André's L'OMELETTE the FRENCH RESTAURANT & BISTRO
2 Miles South of Stanford on Old El Camino Real
☆ Closed Mondays and Tuesdays ☆

SMITH-ERICKSON—Marcia Candace Smith to Judge Vincent N. Erickson, recently in Los Angeles. They will live in North Hollywood.

Births

CARAS—To Mr. and Mrs. George Caras, '54 (Patricia Jane Bramwell, '55), a son, Andrew Langley, Dec. 16 in Glendale. The father is a salesman for IBM.

FRAKES—To Mr. and Mrs. George Edward Frakes, '54 (Catherine Davies, '54), a son, Robert Martin, Dec. 30. He joins James, 6, and Laura Lee, 3½. The father teaches history at Santa Barbara City College.

O'NEAL—To Mr. and Mrs. Michael Terrance O'Neal, '54 (Carol Jane Ferguson, '56), a daughter, Martha Jane, Dec. 12 in San Bernardino. She joins Kelly, 8, and Patricia, 6½. The father is with J. C. Penney Co.

RHOADES — To Mr. and Mrs. Rufus V. (Rockey) Rhoades, '54, LLB '59, a son, David Randall, Nov. 13. He joins a sister, Hollinda Lee, 20 months. The father is practicing law in Los Angeles.

1955

MOORE—Brian B. Moore has been named manager of materiel for the analytical and control division of Consolidated Electrodynamics Corp.

Marriages

CORDES-SANDY—Carol Cordes to Donald Sandy Jr., recently in the Stanford Memorial Church. They will live in San Francisco.

TEILHET-WALDORF — Saral Teilhet to William H. Waldorf, Dec. 21 in Washington, D.C. They will live in Washington where the groom is an economist with the Department of Agriculture.

Births

ENGLISH—To Mr. and Mrs. Alan Taylour English, '55 (Jerry Fitzgerald, '56), a son, Anderson Bowen. He joins Holly and Christopher Alan. The father recently received his doctorate in metallurgy from the Massachusetts Institute of Technology and has joined Bell Laboratories in Murray Hill, N.J. Paternal grandmother is Lucile Curtis English, '15.

KELLEY—To Dr. and Mrs. Richard R. Kelley, '55 (Jane Zieber, '56), a daughter, Elizabeth Anne, March 3 in Honolulu. She joins Kathy, 6, Chuck, 5, and Linda, 2½. The father is a resident in pathology at Queens Hospital, Honolulu.

1956

HUNT—The Rev. Ernest Hunt has been named associate pastor of St. Paul's Episcopal Church, Salinas, and continues to serve as vicar of the Church of the Holy Spirit, North Salinas.

ROHRER—John P. Rohrer has been transferred by the Permanente Cement Co. from Seattle, Wash., to Helena, Mont., where he is the Montana District traffic manager.

WAGNER—Ronald A. Wagner has become associated with the Oakland law firm of Weinmann, Rode, Burnhill & Moffitt.

Marriages

FISHER-HUNDLEY—Robert M. Fisher to Cynthia K. Hundley, Feb. 25. The groom is with the Ethyl Corp. in New York.

HUANG-QUON—Peter C. Huang to Jeannette Quon, recently in Westwood, Calif. They will live in New York.

SCARBOROUGH-CALE—John Sargent Scarborough, MBA '58, to Betty Warren Cale, Dec. 22 in Mexico City. They will live in Atherton. The groom is with Ampex Corp. in Redwood City.

Births

NICHOLS—To Mr. and Mrs. William F. Nichols Jr., '56 (Lynn Mitchell, '56), a son, Andrew Burnham, April 25, 1962. He joins Deborah, 5, and John, 2½. The father is a CPA with Price Waterhouse.

ROGERS—To Dr. and Mrs. Robert N. Rogers, '56, PhD '61, a son, Richard Arthur, Jan. 18 in New Haven, Conn. The father, an assistant professor of physics at Wesleyan University, is currently conducting research on electron spin resonance under a grant from the National Science Foundation.

YATES—To Mr. and Mrs. Don Bradshaw Yates, '56, a daughter, Linda Kies, Jan. 26.

1957

CRAWFORD—Dorcas Ann Crawford has joined the research department of Davis, Skaggs & Co., San Francisco investment and brokerage firm.

CROOKSTON—Bill Crookston has been named district manager of the Seattle District of Universal Match Corp. He earlier had been with the firm in Los Angeles and was first vice-president of the Santa Monica Junior Chamber of Commerce.

DORMAN—Dr. Jon D. Dorman, who received his MD from Yale in 1961, is a resident in neurology at Charlottesville, Va.

FLEISHER—Belton M. Fleisher, PhD '61, is assistant professor of economics at the University of Chicago. He will spend the coming academic year at the London School of Economics on a National Science Foundation postdoctoral research grant.

HILL—Harold W. Hill Jr., MBA '61, has been promoted to assistant cashier at the University Ave.-Bayshore (Palo Alto) office of Wells Fargo Bank.

SCHMIEDER—Ronald R. Schmieder, MBA '61, is associated with the Kordite Corp. as a packaging films salesman in Salt Lake City. He and his wife, the former Marjorie Fish '60, have a daughter, Alison.

Marriages

MOFFATT-PETERMAN—Julie Moffatt to John Walter Peterman, June 30 in Sacramento. They are living in Palo Alto where both are with Lockheed. The bride is the daughter of Mr. and Mrs. Philip J. Moffatt, '31 (Jean Jamison, '32).

Births

BAILEY—To Dr. and Mrs. George W. H. Bailey, '57, MD '60 (Karen Kinnear, '57), a son, Michael David, June 13. He joins Kenneth, 3.

KIRIANOFF—To Mr. and Mrs. Peter N. Kirianoff, '57, AM '58, a daughter, Jacqueline Ann, March 15, 1962, in Whittier. She joins Monica Ann, 3. The father is a teacher at Lowell High School.

PATRIDGE—To Mr. and Mrs. John J. Patridge, '57 (Marie Smith, '58), a daughter, Mary Repplier, June 22. She joins Carolyn and Susan, 4, and John, 2. The father practices law in Stockton.

1958

Marriages

SMEAD-MICHEL—Frank W. Smead, MBA '62, to Valerie Jane Michel, '63, Oct. 27 in San Rafael. They are living in Mountain View while the groom is a sales engineer for Philco Corp. and the bride continues her studies at Stanford.

Births

WELCH—To Mr. and Mrs. Timothy Welch, '58, AM '61, a daughter, Nicole Jocelyn, Feb. 19. She joins Timothy II, 2.

WILSON—To Mr. and Mrs. Dennis K. Wilson, '58, MBA '60, a daughter, Barbara Anne, Nov. 27 in Sunnyvale. She joins David and Cynthia, both 2½. The father is assistant to the president of RADIATION at Stanford.

1959

DORMAN—Benjamin H. Dorman Jr. was administered the attorney's oath in absentia for admittance to the California state bar while serving with the Army at Fort Meade, Md.

PORTER—Duncan M. Porter, AM '61, a teaching assistant in botany at Harvard while working on his doctorate, recently spent several weeks on a research project studying wild cotton plant distribution in Baja California.

TRUESDELL—Dr. Leonard C. Truesdell has joined the professional staff of Shell Devel-

JOHN MATTIMOE
Class of 1947

KENDALL R. PECK
Class of 1950

THOMAS H. FRASER
Class of 1952

educational television:

help for busy teachers
hope for crowded classrooms

Today, education in America faces a severe challenge. An accelerating world requires new and broader curriculums. An expanding population begs for more teachers, more classrooms.

Many communities have turned to Educational Television as an imaginative way to expand course subjects, to bring more effective teaching techniques into the classrooms without sacrificing personalized instruction from room teachers.

Because of our long experience in the research and development of telephone, television, and defense communications networks, it was natural that the Bell System was called on to develop facilities for one of the first ETV networks in the country, in Hagerstown, Maryland.

We have since helped pioneer the first statewide, closed circuit Educational Television system, in South Carolina.

In doing this, we have developed a transmission service that is low in cost and makes use of the service and maintenance facilities of local Bell Telephone Companies in communities of any size.

Helping communities like yours find the answer to better learning through ETV is just one more way of putting Bell System research and skills to work serving you and your family.

BELL TELEPHONE SYSTEM

Owned by more than two million Americans

HAROLD W. HILL
Class of 1957

TED TANNER
Class of 1954

ANN NORTON
Education

opment Co. at the Emeryville Research Center. He will be an engineer in the industrial chemicals department.

VENDELIN—George D. Vendelin has completed work for the degree of engineer at Stanford and has joined the semiconductor research and development department of Texas Instruments, Dallas.

Marriages

BEARDSLEY-SMOLEY — George Marston Beardsley to Constance Mary Smoley, Sept. 3 in Scarsdale, N.Y.

CLOTFELTER-OWEN—Richard Cummins Clotfelter to Nancy Louise Owen, Dec. 28 in San Marino. They will live in South Pasadena.

GRIFFIN-VAN VUREN—Harold H. Griffin to Jacqueline June Van Vuren, Dec. 22 in Arcadia. They are living in Arcadia while the groom continues his work for a PhD at UCLA.

PERACCA-HUMES—Roland M. Peracca Jr. to Maryellen Humes, '60. The groom, who graduated from Harvard Law School, is serving a two-year tour of duty with the Army. The bride is in her second year at University of Chicago Medical School.

Births

CLARK—To Mr. and Mrs. Peter F. Clark, '59, a son, Peter Scott, Sept. 13 in Boston. The father is attending Harvard Medical School.

1960

STANFORD—Sharon Vaughan Stanford has joined the faculty of Magnolia school in Azusa, Calif.

Marriages

CHAFFEE-SIEGEL—Karen Kay Chaffee to Robert H. Siegel, Aug. 29. They are living in New York where the bride is an audiologist at Presbyterian Medical Center.

DAVIS-KELLENBERG—Robert Glenn Davis to Susan Carroll Kellenberg, '61, Nov. 8 in Panama, Canal Zone.

FINN-JOHANNES—Charles Reid Finn and Carol Gwen Johannes, both Class of 1960, were married March 3, 1962, in Reno, Nev. They are living in Brooklyn while the groom is doing graduate work in design at Pratt Institute.

HUMES, Maryellen — See Peracca-Humes, Class of 1959.

Births

STEENECK—To Lt. and Mrs. Robert C. Steeneck (Judith Lynn Blair, '60), a son, Robert Thomas, Nov. 26 in Honolulu. He joins Kathy, 2. The father is stationed at Hickam Air Force Base.

1961

HENZE—Peter F. Henze completed the Marine Corps Officer Candidate School in December and was commissioned a second lieutenant. He qualified for flight training and is stationed at the Naval Air Station, Pensacola.

Marriages

CECIL-COCHRAN—Stefani Dierdre Cecil to Garrett Cochran, Dec. 22 in Washington, D.C. They will live in Washington.

DORN-JURDEN—Gareth Andrew Dorn to Nancy Ann Jurden, recently in Arcadia.

KELLENBERG, Susan Carroll—See Davis-Kellenberg, Class of 1960.

Births

BURNS—To Mr. and Mrs. Brian N. Burns, '61 (Elizabeth Hillman, '60), a daughter, Rachel Anne, Dec. 11.

1962

HERMANN—Ross Hermann has joined the staff of *Human Events* in Washington, D.C., as assistant editor after attending the newsletter's workshop last summer.

RANKIN—Jerry Rankin has been transferred to the Sacramento bureau of Associated Press for the duration of the 1963 session of the Legislature, having been serving in San Francisco.

Marriages

BENSON-CLARKE—Pauline M. Benson to Thomas David Clarke, recently in San Jose. They will live in San Jose.

GLENN-BOOMER — Franklin P. (Skip) Glenn to Penny Boomer, Dec. 24 in Reno, Nev. They will live in Albany while the groom is attending law school at the University of California.

Births

ROBERTSON—To Lt. and Mrs. Munro V. Robertson, '62 (Penny Wheeler, '62), a son, Michael Lee, Dec. 26 in Palo Alto. The father is executive officer of the Marine Detachment, USS Ticonderoga, now in the Far East. He graduated number one in his class of 415 students at the Marine officer's basic training course at Quantico, Va., in December.

Business

BARSTEN—Alfred B. Barsten, MBA '60, has been promoted to the position of budget analyst at IBM's development laboratory in San Jose.

JEFFERIES—Robert F. Jefferies, MBA '56 has been named controller of Microwave Electronics Corp., Palo Alto. He joined the firm in 1960 and had been accounting manager and assistant controller.

LYON—Richard Lyon, MBA '53, has been named manager of the new Robinson's store in Anaheim. With the department store since 1954, he had been stationery and camera buyer since 1959.

McCARTER—Robert S. McCarter, MBA '50, has been appointed vice-president of Dwyer-Curlett & Co., Southern California mortgage banking firm. He will be in charge of the firm's commercial, industrial, and apartment house lending. He earlier had been with Pacific Mutual Life Insurance Co.

McCOLL—John A. McColl, MBA '53, has been appointed resident manager of the San Diego office of William R. Staats & Co., a member of the New York Stock Exchange. He joined the Staats firm in San Diego seven years ago and has served as president of that city's Stock and Bond Club.

Births

DICKE—To Mr. and Mrs. William Dicke, MBA '60 (Lorraine Wilbur, '53), a daughter, Eleanor, in October.

TORMEY—To Mr. and Mrs. Ed Tormey, MBA '58 (Joy Dirstine, '51, AM '52), a daughter, Margaret Jean, July 21.

Education

BYERS—Dr. Loretta M. Byers, AM '37, EdD '49, has been appointed assistant dean of the school of education at the University of California at Santa Barbara.

HINKLE—B. Edward Hinkle, AM '48, Santa Rosa realtor since 1952, has changed the name of his firm from Codding Realty to Pioneer Realty.

HOLBROOK—Dr. C. Ray Holbrook, EdD '39, who retired in 1961 as assistant superintendent of schools (administration and finance) of Kern County, is serving as consultant to the Kern County School District Organization Committee.

NORTON—Ann Norton, AM '59, is teaching at the Stuttgart American Schools in Germany—after two years of teaching in Coronado, Calif.

Humanities–Sciences

CARGILL—Oscar Cargill, Gr. '24, chairman of the English department at New York University, was one of three alumni honored by Wesleyan University in November for "distinguished service as teachers and scholars." He was cited for "highly effective and exciting teaching" at Michigan State College, Marietta College, and New York University and his contributions to the study of American literature.

CALIFORNIA ASSOCIATION OF INDEPENDENT SCHOOLS

ENDORSED AND ACCREDITED SCHOOLS FOR GIRLS AND BOYS

This association was established to encourage and support the highest standards in private schools. The 44 schools listed have been approved by representative boards from the leading California colleges and schools on the basis of academic standards, faculty, achievements of graduates, physical plant, equipment, and school ethics. A variety of schools are included—day and boarding, military and nonmilitary, country and metropolitan. Some of the schools have summer sessions.

You are invited to call or write directly to these schools at any time. Qualified advisers are available throughout the year for consultation. Catalogs and information about the individual schools will be sent upon request, without obligation.

The Association is officially endorsed by:

UNIVERSITY OF CALIFORNIA
CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA
OCCIDENTAL COLLEGE
UNIVERSITY OF REDLANDS
STANFORD UNIVERSITY
MILLS COLLEGE
GEORGE PEPPERDINE COLLEGE
CLAREMONT MEN'S COLLEGE
SCRIPPS COLLEGE
WHITTIER COLLEGE
UNIVERSITY OF THE PACIFIC
POMONA COLLEGE
HARVEY MUDD COLLEGE
CALIFORNIA WESTERN UNIVERSITY

Member schools of the Association are:

SCHOOLS FOR BOYS

ARMY AND NAVY ACADEMY—Boarding. Grades 7 through 12. Carlsbad.
BLACK-FOXE SCHOOL—Day. Kindergarten through 12. Melrose Ave. at Wilcox, Los Angeles 4.
CALIFORNIA MILITARY ACADEMY—Day and boarding. Kindergarten through 9. 5300 Angeles Vista Blvd., Los Angeles 43.
THE CATE SCHOOL—Boarding. Grades 9 through 12. Casitas Road, Carpinteria.
DUNN SCHOOL—Day and boarding. Grades 8 through 12. Los Olivos, Santa Barbara County.
FLINTRIDGE PREPARATORY SCHOOL FOR BOYS—Day. Grades 5 through 12. 301 Foothill Blvd., La Cañada.
LICK-WILMERDING SCHOOL—Day. Grades 9 through 12. 755 Ocean Ave., San Francisco 12.
MENLO SCHOOL—Day: 7 through 12. Boarding: 9 through 12. Menlo Park.
MIDLAND SCHOOL—Boarding. Grades 9 through 12. Los Olivos, Santa Barbara County.
ROBERT LOUIS STEVENSON SCHOOL—Day and boarding. Grades 7 through 12. Box 657, Pebble Beach.
SOUTHWESTERN MILITARY ACADEMY—Boarding. Grades 1 through 10. 2800 Monterey Road, San Marino 9.
THE THACHER SCHOOL—Boarding. Grades 9 through 12. 5025 Thacher Road, Ojai.
TOWN SCHOOL FOR BOYS—Day. Kindergarten through 8. 2750 Jackson Street, San Francisco 15.
WEBB SCHOOL OF CALIFORNIA—Boarding. Grades 8 through 12. 625 Base Line Road, Claremont.

SCHOOLS FOR GIRLS

THE ANNA HEAD SCHOOL—Day. Grades 1 through 12. 2538 Channing Way, Berkeley 4.
ANOAKIA—Day and boarding. (Pre-school through 4, co-ed.) Grades 5 through 12. 701 West Foothill Blvd., Arcadia.
THE BISHOP'S SCHOOL—Day: Grades 7 through 12. Boarding: Grades 8 through 12. 475 Prospect, La Jolla.
CASTILLEJA—Day and boarding. Grades 7 through 12. 1310 Bryant Street, Palo Alto.
THE KATHARINE BRANSON SCHOOL—Day and boarding. Grades 9 through 12. Ross, Marin County.
THE KATHERINE DELMAR BURKE SCHOOL—Day. Kindergarten through 6: 195 - 32nd Ave., San Francisco 21. Grades 7 through 12: 3065 Jackson St., San Francisco, 15.
MARLBOROUGH SCHOOL—Day. Grades 7 through 12. 5029 West Third Street, Los Angeles 5.
THE SARAH DIX HAMLIN SCHOOL—Day: Kindergarten through 12. 2129 Vallejo St., San Francisco 23. Boarding: Grades 9 through 12. 2120 Broadway, San Francisco 15.
WESTLAKE SCHOOL FOR GIRLS—Day: Kindergarten through 12. Boarding: Grades 6 through 12. 700 North Faring Road.
WESTRIDGE SCHOOL—Day. Grades 5 through 12. 324 Madeline Drive, Pasadena.

CO-EDUCATIONAL SCHOOLS

ANOAKIA—Day: Pre-School through 4, co-ed. 701 West Foothill Blvd., Arcadia.
BONNER SCHOOL—Day. Nursery through 6. 11991 San Vicente Blvd., Brentwood.
THE JOHN THOMAS DYE SCHOOL—Day. Pre-School through 8. 11414 Chalon Road, Los Angeles 49.
CHADWICK SCHOOL—Day and boarding. Pre-School through 12. 4040 W. Palos Verdes Drive North, Rolling Hills.
THE CHANDLER SCHOOL—Day. Grades 1 through 8. 1005 Armada Drive, Pasadena.
CRANE COUNTRY DAY SCHOOL—Day. Kindergarten through 9. 1795 San Leandro Lane, Santa Barbara.
DESERT SUN SCHOOL—Boarding. Grades 8 through 12. Idyllwild, Riverside County.
FOOTHILL COUNTRY DAY SCHOOL—Day. Kindergarten through 8. 1035 West Harrison Ave., Claremont.
FORD COUNTRY DAY SCHOOL—Day. Kindergarten through 6. Stonebrook Road, Los Altos Hills, P.O. Box 247, Los Altos.
THE FRANCIS W. PARKER SCHOOL—Day. Pre-Kindergarten through 10. 4201 Randolph Street, San Diego 3.
THE HOWARD SCHOOL—Day and boarding. Nursery through 8. 260 San Ysidro Road, Santa Barbara.
HAPPY VALLEY SCHOOL—Day and boarding. Grades 7 through 12. Ojai.
HILLBROOK SCHOOLS—Day. Nursery through 9. 16000 Marchmont Drive, Los Gatos.
LA JOLLA COUNTRY DAY SCHOOL—Day. Nursery through 12. 4177 Kipling Ave., La Jolla.
MARIN COUNTRY DAY SCHOOL—Day. Kindergarten through 8. 5221 Paradise Drive, P.O. Box 175, Corte Madera.
OAKWOOD SCHOOL—Day. Kindergarten through 6. 11230 Moorpark St., North Hollywood.
OJAI VALLEY SCHOOL—Day and Boarding. Grades 4 through 11. El Paseo Road, Ojai.
PALMER SCHOOL—Day. Kindergarten through 8. 2731 Oak Road, Walnut Creek.
PINECREST SCHOOL—Day and boarding. Nursery through 9. 14111 Sherman Way, Van Nuys.
POLYTECHNIC SCHOOL—Day. Nursery through 12. 1030 East California Blvd., Pasadena.
WARREN-WALKER—Day. Nursery through 8. 4605 Point Loma Ave., San Diego 7.

For further information write:

California Association of Independent Schools
SARA LEWIS RUGG, *Executive Secretary*
1135 Oriole Road Santa Barbara, California

In Memoriam

1899

CORBIN—Elisha Lockhart Corbin died Jan. 27 in Los Gatos. An attorney, he had quit his practice and moved to the Santa Cruz mountains in 1932. Survivors include a brother-in-law.

1904

MAPLES—Roscoe William Maples died Jan. 17 in San Francisco after a long illness. A retired lumber executive he had long lived in San Francisco. His contributions as an alumnus were numerous. He was a former member of the Alumni Executive Board and contributed to the fund which established Bowman Alumni House. When he died, he was a member of Stanford Associates and the PACE Bay Area Major Gifts Committee. In 1958 he established the Elizabeth Maples Warner Memorial Scholarship. A tennis enthusiast, he was a former president of the Northern California Tennis Association. He had served in administrative capacities to the Northern California and U.S. Lawn Tennis Associations and was a founder of the Youth Tennis Foundation. Survivors include his widow, a sister, and three nephews, including Clive Maples Warner, '31, AM '34, PhD '38, and Barry Maples Warner, '51.

1905

COULTER—Edith Margaret Coulter died Jan. 27 in Berkeley. She was 82. Miss Coulter studied library science in New York and returned to serve on Stanford's library staff from 1907 to 1911. She then went to the University of California, retiring as a full professor in 1949. She had received the Gilbert Mudge citation for distinguished contributions to reference librarianship from the American Library Association. Her professional affiliations were numerous. Survivors include a sister, Mabel, '01.

1906

FITTING—Ralph Ulf Fitting died Feb. 16 in Southern California following a long illness. He was 82. A retired consulting engineer for Southern California Gas Co., he had been with the firm from 1936 to 1945. He was the author of many technical papers and a textbook on report writing. Survivors include his widow and two sons, Robert D., '39, and Ralph U. Jr., '32.

SPENCER—Allan Thomas Spencer died Jan. 13 in Auburn, Calif. He was 81. A retired cattle and sheep rancher, he was a past president of the California Wool Growers Association and served at one time as chairman of the State Reclamation Board and the State Board of Forestry. During his career as a rancher he was credited with developing the Romedale crossbreed of sheep. He was a former director of the California State Chamber and in 1950 was named Livestock Man of the Year by the San Francisco Chamber. Surviving are four sons, including Allan, '32, William, '34, and Douglas, '37; two daughters, Virginia Spencer Davis, '48, and Barbara Spencer Smith, '42; two sisters, including Daisy Spencer Thompson, '14; and a grandson, Allan T. Spencer, '61.

1907

ALLEN—Ben Shannon Allen died Feb. 26 in Palo Alto after a long illness. He was 80. A former newspaperman, he was editor of the *Stanford Daily* and campus correspondent for

San Francisco papers while a student. He had been publisher of the *Sacramento Union* (1919–23) and the *California Farmer* (1923–36). It was while serving in Europe with Associated Press that he began a long association with Herbert Hoover. He met with the group founding the Commission for Relief in Belgium. After the U.S. entered the War, he returned to Washington as a member of the Food Administration Board. The years between World Wars I and II were devoted to publishing and public relations, and he was with the Office of War Information in San Francisco during the second war. In 1950 he joined the California Redwood Association to set up the group's first conservation division and to help form the Redwood Region Conservation Council. He was elected an honorary vice-president on his semi-retirement from the RRCC in 1957. He had continued as a public relations consultant to both groups. He always found time to be an active Stanford alumnus, and served as chairman of the Class of 1907's Golden Anniversary Reunion. Survivors include his widow and four sons Shannon, '32, PhD '42, John, '33, William Hayes, '48, LLB '56, and David, '37, MBA '39.

ELWELL—Cyril Frank Elwell, Engr. '08, died Feb. 11 in Belmont after an illness of 18 months. He was 78. Considered by many "the father of modern radio," he helped pioneer radio experiments which eventually led to worldwide radio transmission. Working with Lee de Forest in Palo Alto, he began radio-telephone experiments shortly after graduating from Stanford. In a very short span their experiments were successfully carrying radio telegraph messages over a distance of five miles, then 50 miles; and finally across the water to Honolulu. Working in Europe during World War I, he was instrumental in equipping the British and French navies with radio telegraph. He also erected a radio station in Rome for direct connection with the U.S. Spending a number of years in England, he returned to the United States in 1939 and worked on radar development in Washington. In 1945 he returned to the Peninsula and became a consultant to the Hewlett-Packard Co. He served the firm for 15 years before retiring. Survivors include his widow and three daughters.

1908

RAMSAY—Reginald Crawford Ramsay died Jan. 26 following a long illness. He was 74. An attorney, he had practiced in San Francisco for some 30 years prior to his retirement. Survivors include a brother, Harold H. Ramsay, '15, and a sister, Georgia Ramsay Root, '01.

1909

JONES—Isabel Peck Charles Jones died Feb. 4 after a brief illness. She was 85. She was the wife of Eliot Jones, professor of economics, emeritus. When her first husband, Samuel W. Charles, was killed in an accident in 1916, she was appointed to fill out his unexpired term as a justice of the peace, the first woman to hold this job in California. She studied law, passed the bar exam, and was regularly re-elected to the post until retiring when she married Dr. Jones in 1929. Survivors include a son, Allan E. Charles, '25, JD '27; a daughter, Shirley Charles Nichols, '23; a stepson, Eliot Jones Jr., '37; four grandchildren; and 11 great-grandchildren.

PRIDHAM—Edwin Stewart Pridham died Jan. 14 in Oakland after a brief illness. He was 81. Two years following his graduation from Stanford, Pridham and the late Richard O'Connor founded the Magnavox Co. in a converted farmhouse in Napa. One of the first experiments in the laboratory produced a sensitive moving coil that became the basis of the dynamic loudspeaker which made the company famous. Other developments from the laboratory were the first single dial radio, the first radio-phonograph, and the first aircraft intercommunication system. A native of Illinois, Pridham had lived in Oakland for more than 40 years. Survivors include his widow, a son, and a daughter.

1910

BELLAH—Samuel Harrison Bellah died Jan. 9 in Portland, Ore., after an illness of several months. A civil engineer, he had been particularly active in the location and construction of logging railroads in the Northwest. At the time of his death he held dual responsibilities as an alumnus—he was president of the Jefferson Stanford Club and class agent for the Class of 1910. His home was in Rogue River. As a student he was captain of the track and field team, competing in pole vaulting and broad jumping. Survivors include his widow.

1912

FRENCH—Norman Dugard French died Dec. 12. Survivors include his widow and four children.

1916

JONES—Col. Leslie Bryant Cullen Jones (USA-ret.) died Feb. 1 in Marin County. He was 72. He joined the Army after ROTC training at Stanford and was a veteran of World Wars I and II. From 1946 to 1956 he was headmaster of the San Rafael Military Academy. He also was well known as a poet and had works published in a number of magazines and newspapers. Survivors include his widow, a daughter, and a son, Gordon, '39.

KISER—Fay Wallace Kiser died Nov. 11 in Oakland. He was 69. He had been with the Federal Housing Administration in San Francisco for a number of years. Survivors include his widow, Beulah Watson Kiser, Gr. '40.

1917

ENSON—Willard Taylor Evenson died . 18 in San Diego. He was 69. A business d civic leader in Oregon, he had been presi-

dent of the Wauna Lumber Co. since 1941 and of the First National Bank of Clatskanie since 1934. He was Clatskanie's mayor for five years, a member of the school board, and a member of the county selective service board. At Stanford he was elected to i Beta Kappa. Survivors include two others, Franklin, '19, Engr. '21, and Justin, 3; and two sons, including Edward, '44.

1924

HAMBERLIN — Cecil Fayette Chamber- died Jan. 18 in Santa Cruz. He was 63. artist, he was founder of the Society of estern Artists and had operated an art gal- y in Santa Cruz. He was a native of Santa sa. Survivors include his widow, a brother, d a sister.

Education

NNIN—Clarence Russell Annin, Gr. '29, ed Nov. 7.

ELLS—Dr. Walter Crosby Eells, PhD '27, ed Dec. 15 in Washington, D.C., of a heart ttack. Professor of education at Stanford om 1927 to 1938, he then served as execu- ve secretary of the American Association of nior Colleges. In 1947 he became adviser higher education to the Supreme Com- ander, Allied Powers, in Tokyo. In 1951 he as named consultant to the U.S. Office of ducation. A graduate of Whitman College, served on that school's faculty before oming to Stanford. Survivors include his idow, a daughter, and two sons.

Humanities-Sciences

UERARD—Wilhelmina McCartney Guer- d, AM '09, widow of the late Prof. Albert eon Guerard and mother of Albert J. Guer- d, professor of English, died Jan. 28 in Palo lto. She was 86. A writer, she had done rticles for such publications as the *Atlantic Monthly* and the *English Review* under the en name of Graham Munro. She had also ranslated several books from the French. Mrs. Guerard was a native of Scotland. A ormer president of the Stanford YWCA, she lso had been active as a member of Pi Beta hi and the Stanford Mothers' Club. In ad- ition to Professor Guerard, she leaves a daughter, Catherine Guerard Pearson, '33, MD '38, seven grandchildren and two rothers.

Medicine

KINSLOW—Dr. Frank Aloysius Kinslow, MD '06, died Oct. 29 in San Francisco. He as 77. He had long maintained his medical ractice in San Francisco and in recent years ad specialized in gastro-intestinal diseases. Survivors include his widow; a daughter; a son; and a stepdaughter, Louise Kinslow Kinta Bent, '43.

PEERS—Dr. Robert Stewart Peers, Gr. '25, died Jan. 19 in Oakland. Survivors include is widow, a daughter, a son, and a brother.

BUSINESS AND PROFESSIONAL DIRECTORY

SHEARSON, HAMMILL & CO.

Founded 1902
Members New York Stock Exchange and other leading Stock Exchanges

SANTA BARBARA
1007 Anacapa Street • Woodland 5-8571
FRANCIS B. MANCHESTER '26, *Resident Manager*

Complete Brokerage Facilities • Professional Investment Management Service

"SERGENERAL"

A limited company of
COLOMBIA-SOUTH AMERICA
PROPERTY MANAGEMENT
INTERNATIONAL TRADE COUNSELORS
Commerce and Industry Studies
Tax and Exchange Problems
U.S. residents receive important U.S. tax exemptions on Colombian realty holdings.
Inquiries invited.
Bank References in California, New York, South America

Air Mail Box 1561 — Cali, Colombia
Cables: "Sergeneral — Cali"

FRED W. PEARMAN '34
Partner and Manager

LEVISON BROTHERS

General Insurance Brokers

Providing Our Clients Analytical and Objective Insurance Service

Robert M. Levison, '21
Robert M. Levison, Jr., '48
Douglas M. Heller, '53, M.B.A. '57

233 Sansome St. **San Francisco 4**
GArfield 1-4221

Palo Alto Transfer and Storage Company

AGENT ALLIED VAN LINES, INC.
Serving Stanford since 1902

J. D. FESSIO, '34
Vice-President Sales and Service

Palo Alto	Sunnyvale
151 Homer Ave.	360 E. Evelyn Ave.
DA 5-0061	RE 9-4700

SERVICES FOR EVALUATION, DEVELOPMENT, AND UTILIZATION OF NATURAL RESOURCES

Carroll G. Bradberry & Associates
CONSULTING ENGINEERS
LOS ALTOS - CALIFORNIA

Land–Water–Petroleum–Minerals

BUICK— or RAMBLER— ANYONE?

"BONES" HAMILTON

5747 Van Nuys Blvd. TRiangle 3-1177
VAN NUYS STate 5-7423

Edwin C. Porter, '43 William F. Hooper, '44

PORTER-HOOPER & CO.

Insurance Brokers and Consultants

204 S. Beverly Drive **Beverly Hills, California**
Crestview 5-4329 **Bradshaw 2-2714**

Parsons Optical LABORATORIES

- dispensing opticians — BILL GREEN '47
- contact lenses — DAN BROWER X '27
- surgical and diagnostic instruments

SAN FRANCISCO—STANFORD—SAN MATEO

AZEVEDO BROS.
Jewelers to Stanford Men & Women since 1936
DIAMONDS—WATCHES—SILVERWARE
Graduate Gemologist 1958
Stanford Charms & Crests
Suite 321, Shreve Bldg.
210 Post St. San Francisco 8
M. Arthur Azevedo, '34
Certified in Diamond Grading and Evaluation by the Gemological Institute of America

JOHN LEAHY ASSOCIATES

Consultants for Estate, Business and Employee Benefit Plans. Agents for Life and Disability Insurance and Annuities

1730 Kearney Street **San Francisco 11**
YUkon 2-0626

WALTER H. LEVISON, '24

JEWELER–APPRAISER
DIAMOND BROKERS

Estate Jewelry Bought, Sold, and Appraised — **210 Post St. San Francisco 8 (DOuglas 2-4752)**

RICHARD L. PARKER, '52

NATURAL GAS CONSULTANT

Vaughn Bldg. **Amarillo, Texas**

MARK TUBAN INC.

Authorized Ford Dealer
YOrkshire 7-6911

S. '55 **111 El Camino Real, Mt. View**

REID'S

TELEVISION—APPLIANCES

Two Locations

Reid's Los Altos TV	Monta Vista TV
1100 El Camino	21519 Stevens Cr. Rd.
948-5718	252-3305

SALES—SERVICE
Joe Reid, '49

Stanford Books and Authors

Bailey Creates a Book of Experience

HISTORY is what happens to *people*—actual breathing human beings like ourselves. It's a kind of mass biography with an ever-changing cast: the story of men and women and what they have done—to their physical surroundings, to their society, to each other. It's a never-ending chronicle of progress and peril, miracles and malice, wisdom and weakness, idealism and idiocy, heroism and hedonism, love and lechery, dedication and deceit, success and slavery, freedom and failure.

T. A. Bailey

It's the book of experience which, when mastered, obviates the necessity of redoing, again and again, the work of previous generations. When we say that so-and-so has a sense of history it's a great compliment. We mean he has an instinctive feel for the true course of human events. Yet the notion persists that history is dull and dry; that its study is an obligation to be performed with the greatest possible speed and the least possible effort.

The cause is hard to pin down. It's easy to indict the historians for lack of spark, of course, but that's too easy. Pedantry is not restricted to teachers. We invite it by demanding that our intellectual repasts be well catered—on paper plates so we won't even have to help with the dishes. But if we insist that our princes and poltroons be clearly and simply labeled, we can easily miss the fact that occasionally the prince can also be a bit of a poltroon: *i.e.*, thoroughly human—like *us*.

Several generations of Stanford alumni can attest that Thomas A. Bailey, Byrne Professor of American History, is one historian who doesn't believe that the easy way is always the best way. His students not only wash their own dishes, they help prepare the meal. Thus when they finally escape his clutches most of them have, not just greater knowledge of the subject matter, but greater respect and interest as well.

Professor Bailey's new book, *The American Spirit*, illustrates and reinforces every point made in the first four paragraphs of this review. He tells the story of America in the words of the people who built it—from John Smith and William Bradford down to those still contending in the arena. One's mind boggles at the mass of publications, documents, and letters he must have pored over in candling out the 650 examples he chose to use.

The great men of our past are there, blazing the trails we take for granted today. But the titans, whether heroes or villains, do not create history all by themselves. There can be no leader without followers, and they, too, are represented. One of the most moving passages in the book is from an interview with an aged Revolutionary War veteran who declared that he felt no "intolerable oppressions," paid no stamp or tea tax, read no treatises on liberty:

"Well then, what was the matter? And what did you mean in going to the fight?"

"Young man, what we meant in going for those Redcoats was this: we always had governed ourselves, and we always meant to. They didn't mean we should."

The American Spirit was designed as a companion volume to the author's widely used text, *The American Pageant*, but it can stand solidly on its own feet. It's a rare offering in that it actually *does* provide an "easy way" to knowledge: reading it is a pleasure which will painlessly create a new dimension of understanding of where we are, whence we came, and what we stand for. As for the child who grows up with *The American Spirit* in his home library—he is twice blessed.

Although many local bookstores may not have *The American Spirit* in stock, it's easily ordered. Alternatively, the Stanford Bookstore will fill mail orders—$8.00 plus 25 cents for handling and (for Californians) an additional 32 cents in sales tax. The book is also available in a two-volume paperback set, but the saving over the hardcover version is only 50 cents.

THE AMERICAN SPIRIT: By Thomas A. Bailey, '24, AM '25, PhD '27; D.C. Heath, Boston, $8.00; 964 pp.; Index. U.S. Constitution (with amendments).

'. . . So Complex a Thing as an Elephant'

ESSAYIST, historian, novelist, pamphleteer, teacher, short story writer, critic: Wallace Stegner uses these words to describe the late Bernard DeVoto (*The Year of Decision, Mark Twain's America, Across the Wide Missouri, The Course of Empire*—plus an additional bibliography covering 90 printed pages). One suspects he will be best remembered as historian and essayist—and as the conscience of an area and era.

This reviewer "met" him and was strongly influenced by him during the latter half of the 20 years he occupied "The Easy Chair" in *Harper's Magazine*. It was not love at first sight, because one does not immediately embrace an abrasive personality addicted to overstatement and recrimination. But eventually one learns to respect and even revere a man who writes brilliantly, reasons cogently,

d observes with a prescience enabling him to keep his ce toward a fixed target often obscured by the swirling nogbanks of human passion. At times called a reaction- y by some, and a radical by others, he was neither.

DeVoto's papers are housed at Stanford—not because any strong connection with this institution during his letime, but because he had warm friends here.

DeVoto's publisher has just issued a slim volume con- ining four warm tributes by writer friends and the bib- ography of his collected manuscripts. The book, unlike eVoto, has a strong Stanford connection. Two of the ur tributes are by Wallace Stegner and the late Edith irrielees, a third is the work of noted biographer Cath- ine Drinker Bowen (who often lectures here), and the ibliography was compiled by Julius P. Barclay of the tanford Library. (The fourth tribute is the work of his- rian Arthur Schlesinger Jr.)

In his introduction Stegner says: ". . . If, in this com- osite portrait, we have made him in the likeness of a pe, a spear, a tree, or a wall, that is what he gets for eing so complex a thing as an elephant." What comes rough is the image, not of an elephant, but of a man of sight and honesty. Admirers of Bernard DeVoto will elcome and applaud the effort.

FOUR PORTRAITS AND ONE SUBJECT—BERNARD DeVOTO: By Wallace Stegner et. al.; Houghton Mifflin, Boston, $4.00; 206 pp. (including bibliography).

A Real Story About Believable People

SOMEONE recently observed that, from the standpoint of results, professional revolutionaries are among the most ineffectual people on the face of the earth. For all their intrigues and incitements they have yet to score their first success. Great popular revolutions, it's argued, are born in the desperate aspirations of the many, not the fulminations of the few.

Lenin, 20th century archtype of the radical leader who made the grade, did not inspire the Russian revolution. Once home, he contrived to capture and control it. But, in exile, he didn't know when, how, or if revolution was coming, or who would stage it—and he didn't dare go home until after it occurred. Albert J. Guerard's sixth and latest novel, *The Exiles,* was not written to buttress this contention, but it does.

A. J. Guerard

His story is about a Caribbean dictatorship he calls "Santa Isabella," whose boundaries happen to be identical with those of the Dominican Republic, and his dictator is a dead (oops!) ringer for the recently departed Trujillo. (Guerard says, however, that readers should not substitute "Dominican Republic" for "Santa Isabella," no doubt because he has drawn on other sources as well.)

He has done a fine job of delineating the character of the reluctant leader, poet-politician Justo de Villamayor (who, fortuitously, (*Continued on next page*)

Two Recently Published "Stanford" Books

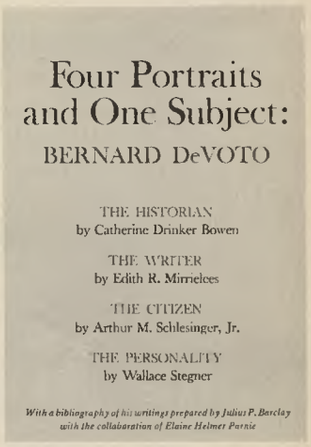
A New Novel by
Albert J. Guerard

"This novel is not only an exciting and entertaining story, it is also an extremely penetrating and shrewd examination of the politics of present-day Latin America. I recommend it enthusiastically."
—Irving Howe

A Testimonial to
Bernard DeVoto

whose collected papers are housed at Stanford University

with a bibliography by Julius P. Barclay


Four Portraits and One Subject:
BERNARD DeVOTO
THE HISTORIAN
by Catherine Drinker Bowen
THE WRITER
by Edith R. Mirrielees
THE CITIZEN
by Arthur M. Schlesinger, Jr.
THE PERSONALITY
by Wallace Stegner
With a bibliography of his writings prepared by Julius P. Barclay with the collaboration of Elaine Helmer Parnie

Four tributes constituting a composite portrait by:

CATHERINE DRINKER BOWEN: *The Historian*
EDITH R. MIRRIELEES: *The Writer*
ARTHUR M. SCHLESINGER, JR.: *The Citizen*
WALLACE STEGNER: *The Personality*

Copies of both titles available from
THE STANFORD BOOKSTORE, Stanford, Calif.

Please send me

____copy(ies) of the EXILES, price $4.95

____copy(ies) of FOUR PORTRAITS, price $4.00

Delivery charge 25¢. If living in California, please add 4% Sales Tax.

Name_____

Address_____

City_____ Zone____ State_____

*Remittance enclosed*____ *Bill me*____

resembles the Dominican republic's new president) and those closest to him. But his treatment of the dictator's bumbling, repulsive, but never-say-die agent, Manuel Andrada, is superb. Andrada is a type, of course, giving insight into the minds and motivations of all dedicated simpletons who serve the forces of evil out of conviction that they are promoting good. But he is also a three-dimensional person who becomes more real with each passing chapter.

(In creating Villamayor the author clearly borrows from the Galindez mystery, but only in a literary sense; he makes no pretense of explaining it.)

Guerard's descriptions of the jealousies and jockeyings of Santa Isabella's long-time plotters and self-appointed saviors, and the people who support them, make the reader wonder how *any* revolution (as distinguished from a mere take-over by insiders) succeeds—unless he realizes that popular uprisings come from the masses, and the machinations of marplots are largely irrelevant.

Unfortunately the characterization of the narrator, U.S. journalist Nicholas Clive, never quite comes to life—perhaps because, even aided by hindsight, Clive's comprehension always seems to lag behind the reader's.

A couple of issues ago this department made some remarks about the "political thriller" and why it usually falls short of minimum novelistic standards. *The Exiles* offers all the positive elements of the political thriller, surely, but few of its sins. That is, it isn't an emotional harangue, but a real story about believable people; the lessons it offers must be constructed by the reader out of the events described.

Another pleasant departure from the political thriller is the fact that it doesn't fall apart at the end. Guerard's confrontation between Villamayor and Andrada has the ring of truth, and the final resolution is convincing.

The Exiles is a good novel in the sense that it holds the reader's attention and interest while adding to his knowledge of the human estate—in this case, of the Caribbean political and social jungle. As literature it's considerably more satisfying than most of the jazzy books that will outsell it—which is fortunate; it would be embarrassing for a full professor of English to produce a work of little merit. —*Dan Endsley*

THE EXILES: By Albert J. Guerard, '34, PhD '38; Macmillan, New York. $4.95; 304 pp.

BRIEFLY NOTED: Atheneum has been granted first "paperback" option on Stanford Press titles . . . *The Evolution of Liberalism* (Collier) is the title of a volume by Harry A. Girvetz, '31, AM '33, chairman of the philosophy department at UC Santa Barbara . . . Other new books: *Religion With Revelation* (Christopher) by the Rev. Charles J. Tilley, Gr. '45 (Educ.); *A Prey of Diverse Colors* (Alhambra) by Ralph S. Pomeroy, PhD '60 (poetry); *Marine Molluscan Genera of Western North America* (Stanford) by associate professor of paleontology A. Myra Keen.

Golden Days at the Stanford Sierra Camp

Make Your Reservations Now to Be Sure of Space

(Stanford Alumni Association members get first choice on reservations made by January 31, 1963) and mail it to Stanford Camp Association, Bowman Alumni House, Stanford, Calif.
(Reservations must be for one or more full weeks.)

First and Last Name Relation Class (or age) University (if not Stanford)

.....

.....

.....

.....

.....

.....

No. of weeks.....Number of persons.....°Starting date: 1st choice.....2nd choice.....

°Starting time 3:00 p.m. each Saturday; the week ends 10:00 a.m. following Saturday

I enclose $2.00 for my membership in the Stanford Camp Association for 1963, plus a deposit of $..... (minimum deposit $10.00 per person per week, excepting infants). Balance due three full weeks before effective date of reservation. Cancellation refunds can be made only on written notice received at least 15 days before starting date; in any event, once space is confirmed, the minimum deposit is non-refundable.

Signed:.....

Address.....Zone.....City.....State.....

BARGAIN LABOR DAY WEEKEND

10 Days—Aug. 24–Sept. 3

Adults (11 and over)	$92.50
Children 5 to 10	64.00
Children under 5	42.50

3 Days—Aug. 31–Sept. 3

Adults (11 and over)	$27.50
Children 5 to 10	19.00
Children under 5	12.50

WEEKLY SUMMER CAMP RATES

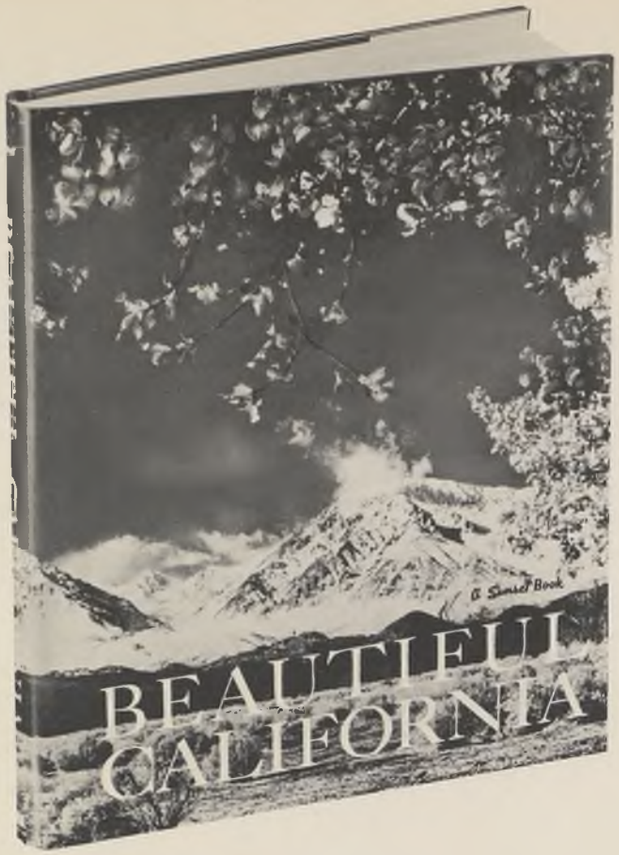
Adults (11 and over)	$65.00°
Children 5 to 10	45.00°
Children under 5	30.00°
Infants (in arms)	10.00

Check if you wish:
☐ Bath
☐ Single beds for adults

Private bathrooms $20 extra per bathroom per week

° Includes meals; sales tax extra

Camp opens June 15, closes September 3



California's splendor —in breathtaking pictures

A magnificent new book from Sunset

- *Large 8⅝" x 11¼"*
- *320 pages*
- *304 photographs*
- *30 pages in full color*

Sunset Books and *Sunset Magazine* proudly announce publication of a distinguished new pictorial volume: *Beautiful California.*

This big new book brings the full beauty of California right into your home with hundreds of photographs *of framing quality.* It shows fully the many varied faces of the state, in breathtaking color and black-and-white pictures which focus sharply on every nook and cranny of this vast land. *It is the most beautiful book on California ever published.*

In order to create a wonderful volume that would picture the full splendor of all of California, *Sunset* carefully studied more than 5,000 outstanding photographs submitted by 55 skilled Western photographers. From these were selected the *great* ones that appear in this book . . . chosen for their pictorial excellence as well as for their suitability in bringing to you the beauty, mood, and character of each region.

To make sure that these pictures would retain their striking original brilliance in every case, extra care has been taken in reproducing them. New Kodak color methods, fine paper, and expert supervision of the actual printing guarantee exact and faithful color plates. The dramatic black-and-white photographs were printed with two black inks of different value to attain superb contrast and tone.

The result is a magnificent collection of California photographs, outstandingly reproduced, that will take you throughout the state—from splashing surf to still, high mountain; from sun-drenched desert to dark forest; from bustling city streets to remote wilderness places. It's all here in one magnificent volume, for your family's pleasure, your children's wonder . . . a book to show relatives, friends, and guests justifying all of the acclaim ever given the breathtaking beauty of California.

Although $10.75 is the price of this beautiful book (a special deluxe edition bound in library buckram, in a gold-stamped slipcase, is available at $12.50) this first printing will be priced at only $8.95 for those who order early.

SEND THIS COUPON

THE STANFORD BOOKSTORE
Stanford, California

Please send me _____ copy(ies) of BEAUTIFUL CALIFORNIA at special first printing price.

NAME_____

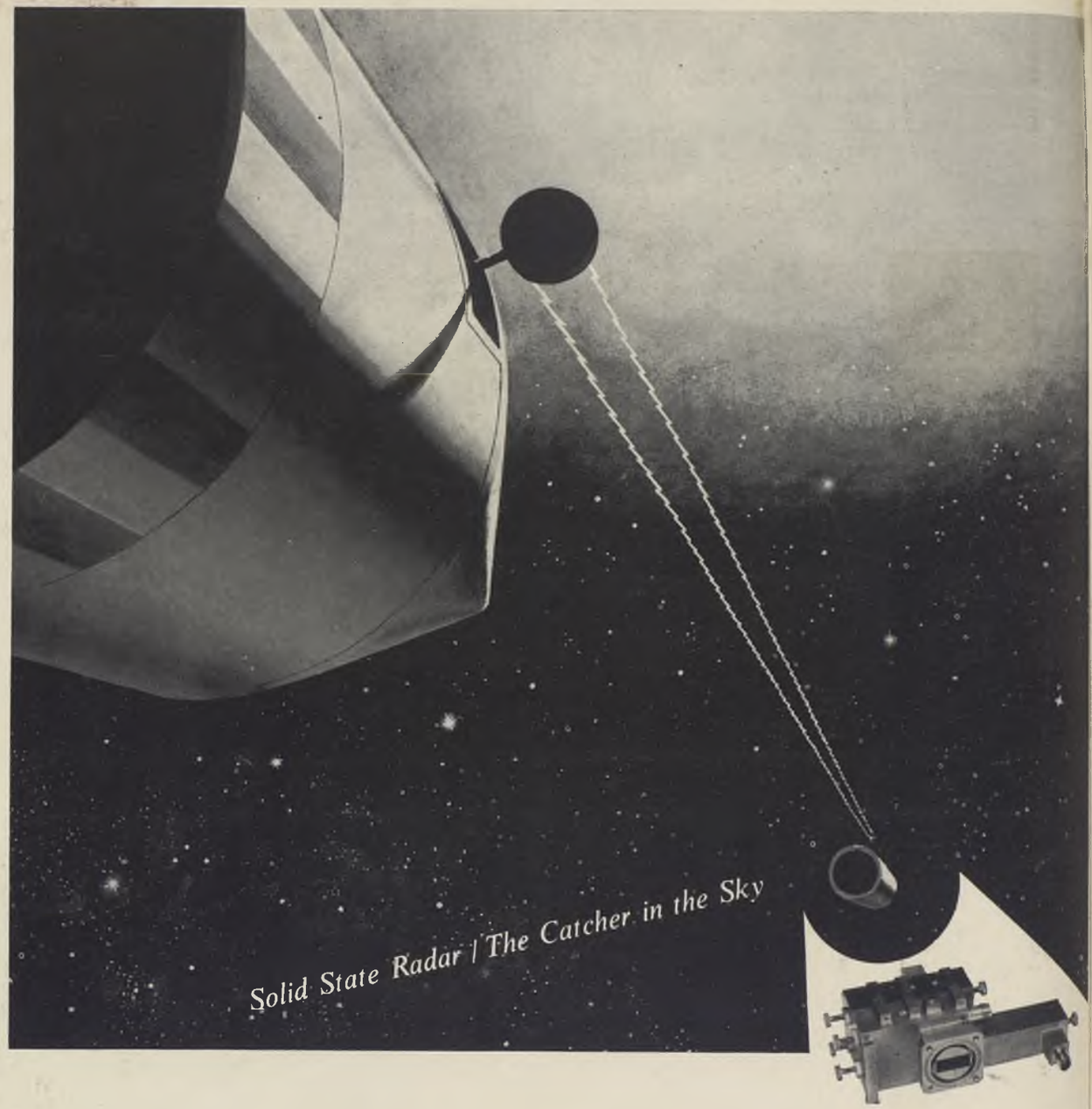
ADDRESS_____

CITY_____ZONE____STATE_____

Price: $8.95, plus 25¢ delivery charge. If residing in California, please add 36¢ for State sales tax.

Bill me ☐ Remittance enclosed ☐

☐ Send deluxe gold - stamped slip case edition bound in library buckram, at $12.50.



A new solid state radar system built by STL engineers and scientists can send out and receive signals at X-band frequencies to help man rendezvous and dock vehicles in space. STELATRAC is its name. It is the first solid state system of its kind. The X-band transmitter is shown above. It has successfully passed temperature and vibration tests. STELATRAC can also be used as a command link between vehicles in flight. By altering its module design, the flexible radar system operates as an altimeter and doppler velocity sensor to guide spacecraft safely to the surface of the moon and planets. Today STL is busy on many such projects as STELATRAC. STL is also prime contractor for NASA's OGO and a new series of classified spacecraft for Air Force-ARPA. And STL continues Systems Management for the Air Force's Atlas, Titan and Minuteman programs. These activities create immediate openings in Theoretical Physics • Systems Engineering • Radar Systems • Experimental Physics • Applied Mathematics • Space Communications • Antennas and Microwaves • Inertial Guidance • Analog Computers • Solid State Physics • Computer Design • Telecommunications • Space Physics • Digital Computers • Guidance & Navigation • Electromechanical Devices • Engineering Mechanics • Aerodynamics • Propulsion Systems. For Southern California or Cape Canaveral positions, write Dr. R. C. Potter, Department CM, One Space Park, Redondo Beach, California, or Box 4277, Patrick AFB, Florida. Your inquiry will receive a prompt reply. STL is an equal opportunity employer.

SPACE TECHNOLOGY LABORATORIES, INC.
a subsidiary of Thompson Ramo Wooldridge Inc.

818-A

Los Angeles • Vandenberg AFB • Norton AFB, San Bernardino • Cape Canaveral • Washington, D. C. • Boston • Huntsville • Dayton • Houston

In This Issue: HERBERT HOOVER
GRAHAM H. STUART
FREDERICK E. TERMAN

May-June
1963

STANFORD REVIEW

STANFORD COLLECTION 738-2
ATTN. RUTH SCIBIRD
STANFORD UNIV. LIBR.
STANFORD, CALIF.

Published by the Stanford Alumni Association

STANFORD REVIEW

May-June 1963

Vol. LXIV No. 5

In This Issue:

Scientific Manpower
Recommendations by Provost Terman 16

Notes on Soviet Higher Education
Based on a report by Nick Rokitiansky 18

23 A Man of Vision
Graham Stuart's view of the Founder

24 SVEN
A true vignette by Muriel K. Lamport

DEPARTMENTS • *The Campus Scene*, page 2 • *Dave Jacobson's Column*, page 7 • *Reunion Calendar*, page 8 • *Faculty and Staff*, page 10 • *Stanford Family Forum*, page 14 • *Book Reviews*, page 26 *Newsmakers*, page 32 • *Strictly Personal*, page 34 • *In Memoriam*, page 45 • *Editor's Column*, page 48

THE STANFORD REVIEW *is published bi-monthly at Stanford University (Palo Alto) with three additional newspaper supplements issued in Autumn, Winter, and Spring under the subtitle of* ALUMNI ALMANAC. *Second Class postage paid at Palo Alto, California. Subscription price: $6 per year, payable in advance, or through membership in the Stanford Alumni Association.*

DAN ENDSLEY, '47, *Editor and Manager*
KAY DALEY, '48, *Activities Editor*

Send news notes and other editorial material, and all inquiries about advertising rates and deadlines, to the Stanford Review, Bowman Alumni House, Stanford.

Change of Address: Notify Review Circulation Department, Bowman Alumni House, Stanford, Calif.

Our cover photo was taken 31 years ago, when Herbert Hoover was America's President. Years later the Review's *present editor mentioned in a newspaper article how he'd always remembered that smile of rapture. The Chief's secretary at Stanford, Dare Stark McMullin, promptly presented a special print which has been saved ever since for just the right occasion—and this is it, for several reasons: 1) Last March Mr. Hoover became the first recipient of the Alumni Association's gold medal for distinguished service named in his honor; 2) he has just received a special medal from Stanford's Trustees (see adjoining photo) acknowledging his innumerable contributions (shown with him—Trustees President Morris M. Doyle and University President J. E. Wallace Sterling); 3) he has just received his 89th honorary degree—one for each year of his life (he will be 89 on Aug. 10); and 4) to make an angling scene particularly apropos, he has published a book on fishing (see next page).*

FISHING PRESIDENTS AND CANDIDATES

By HERBERT HOOVER

Herbert Hoover, '95, soldier of freedom whose lifelong identification has been with causes of peace and humanitarianism, raises his hand against none of God's creatures—except fish, with which, ever since his boyhood, he has been engaged in an unrelenting but unequal contest. (One must say "unequal" because, no matter how frequent the bites, the intervals between remain distressingly long.) During these many years Mr. Hoover has reflected much on piscatorial matters, and occasionally recorded some of his thoughts. Recently he gathered these bits into a delightful little book, Fishing for Fun—And To Wash Your Soul.° *By special permission the* Review *offers this brief excerpt.*

THERE ARE A DOZEN justifications for fishing. Among them is its importance to the political world. No political aspirant can qualify for election unless he demonstrates he is a fisherman, there being twenty-five million persons who annually pay for a license to fish.

In Roman times the people formed their political auguries by observing the flights of birds and the entrails of dead sheep. I have recently been fishing. In the long time between bites I have come to the firm conclusion that today fish take the place of the flight of birds and the entrails of sheep.

Also, I should inform you that from an augury point of view, there are two kinds of fish: There are the host of species of common or garden fish which are the recreation of the common man. There are also the rare species of fish sought by the aristocracy of fishermen. They require more equipment and more incantations than merely spitting on the bait. Politically speaking, these fish can be ignored since they are only landed the hard way and have no appeal to most voters.

A few years ago a press photograph showed my friend the late Senator Taft awkwardly holding a common fish. It was taken from many angles for all the common men to see. I knew without other evidence that he was a candidate. Some years ago my friend General Eisenhower burst into photographs from all angles gingerly holding three very common fish. The augury was positive.

The political potency of fish is known to Presidents as well as candidates. In modern times all Presidents quickly begin to fish after election. I am told that McKinley, Taft, Wilson, and Harding all undertook fishing in a tentative way, but for the common fishes.

President Coolidge apparently had not fished before election. Being a fundamentalist in religion, economics, and fishing, he began his career for common trout with worms. Ten million fly fishermen at once evidenced disturbed minds. Then Mr. Coolidge took to a fly. He gave the Secret Service guards great excitement in dodging his backcast and rescuing flies from trees. There were many photographs. Soon after that he declared he did not choose to run again.

President Franklin Roosevelt caught many common fish from the military base of a battleship.

President Truman, prior to his 1948 election, appeared once in a photograph somewhere in a boat gingerly holding a common fish in his arms. An unkind reporter wrote that someone else had caught it. I can find no trace of the letter that the reporter must have received. It is also reported that Mr. Truman was fishing somewhere north of Key West when his boat was surrounded by sharks. But sharks are always a bad augury. Mr. Truman did not run for a third term.

President Theodore Roosevelt, President Cleveland, and myself—with a slight egotism!—I think, are the only Presidents who had been lifelong fly fishermen. . . .

THAT PRESIDENTS have taken to fishing in an astonishing fashion seems to me worthy of investigation. I think I have discovered the reason: it is the silent sport. One of the few opportunities given a President for refreshment of his soul and clarification of his thoughts by solitude lies through fishing. . . .

Next to prayer, fishing is the most personal relationship of man; and of more importance, everyone concedes that the fish will not bite in the presence of the public, including newspapermen.

Fishing seems to be one of the few avenues left to Presidents through which they may escape to their own thoughts, may live in their own imaginings, find relief from the pneumatic hammer of constant personal contacts, and refreshment of mind in rippling waters. Moreover, it is a constant reminder of the democracy of life, of humility, and of human frailty. It is desirable that the President of the United States should be periodically reminded of this fundamental fact—that the forces of nature discriminate for no man.

° *Copyright 1963 by Herbert Hoover, courtesy of Random House. No part of this excerpt may be reproduced without written permission of publisher.*

THE CAMPUS SCENE

"No Smoking" in RBR

IT'S BEEN many a year since "No Smoking on Quad" has been in effect, and there are large recepticles for butts on the four corners. But, by student request, the Reserve Book Room of the Library now has "No Smoking" signs.

In a written survey, 1,313 student replies were tabulated — 889 voted for no smoking, 424 for smoking. Staff members yielded to student demand, admitting their surprise and noting that smoking "commonly passes as a much-desired privilege, if not a basic human right."

Historic Locomotive Leaves Campus

JUST A HUNDRED YEARS AGO the old railroad engine "Governor Stanford," the Central Pacific's first locomotive, came around the horn from the East on a windjammer and began 30 years of active service. After display at the San Francisco Mid-Winter Fair in 1894 it sat around rusting for a few years until Mrs. Stanford retrieved it and brought it down to the Farm in 1899.

Old Number 1 has been a campus landmark for 64 years, but now it's gone—temporarily. (When the news first came out, some alumni expressed concern because the story didn't make it clear that this absence is not intended to be permanent.) The engine has been loaned to the San Francisco Maritime Museum Association and for the next few years will be the key exhibit in a display of 35 historical cars, engines, and cable trains at the new Railroad Museum to be completed in about 18 months. In the meantime the "Governor Stanford" will be cared for (under cover) at the Santa Fe yard in Richmond.

The Railroad Museum is a section of the S.F. Maritime State Historical Monument being built from tideland oil revenues by the State Division of Beaches and Parks. The aim of the project is to tell California's rail and water transportation story with an outstanding collection of restored ships and rolling stock.

"With both sentimental reluctance and 'family' pride we feel Number 1 could be loaned to no better place and receive no greater reward than this opportunity to relive its role in the state's larger historical context. The engine really belongs to all California . . . ," said John LaPlante, Stanford Museum director, as he prepared for its removal.

He added, however, that eventually the old locomotive will come back home to Stanford—and when that day comes he hopes to provide it with a more adequate setting than it's ever had before. From 1899 to 1916 it sat behind the Museum covered only by a wooden shed. For the past 47 years it has been inside the building, but in such cramped quarters that spectators could get only a myopic view. LaPlante says that if the Museum's courtyards are ever enclosed, for example, one would afford the open area such a massive exhibit needs.

New Center for Radar Astronomy

RADIO ENGINEERS from Stanford and the Stanford Research Institute will work side by side at the new Center for Radar Astronomy which has been established by

Historic diamond-stack engine went out of the Museum the same way it entered in 1916—through a hole in the back wall. Locomotive and tender were separated and hoisted onto massive trucks for the trip to Richmond (note hoisting hook at far right). The job went a lot more smoothly than the transfer from schooner to Sacramento dock back in 1863, when workers almost dropped Number 1 into the river. *—Daily photo by Ralph Peer II*

Where did yesterday go?

That's the big trouble with college reunions. They bring home the fact that time passes awfully fast!

Let's look ahead.

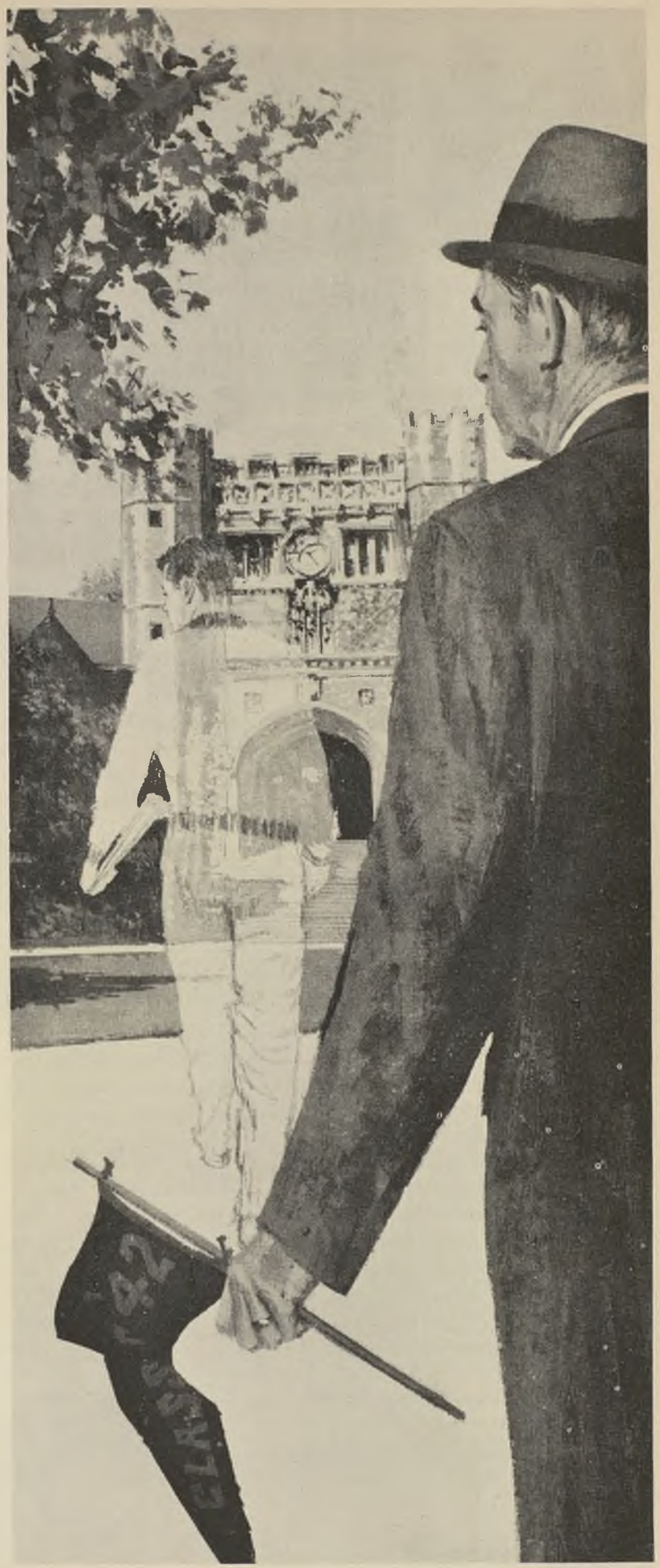
As a husband and father you can look ahead with greater confidence once you have talked life insurance with a Connecticut Mutual Life man. Reason: A CML man can tell you how much and what kind of life insurance will provide *exactly what you want* for your wife and children. He'll ask *you* what you and your family need, and when, and then recommend a plan to provide the funds. This skilled professional work he does without cost or obligation.

Many a client of a CML agent has been delighted at what was done to *stretch* his present life insurance, to make it provide *more money* for the right purposes at the right times *without increasing the cost one cent!* Why not call on a CML man for this service?

Dividends paid to policyholders for 117 years

Owned by its policyholders, CML provides high quality life insurance at low cost and gives personal service through more than 300 offices in the United States.

Connecticut Mutual Life
INSURANCE COMPANY • HARTFORD



Your fellow alumni now with CML

Henry W. Bent, CLU	'40	Los Angeles
James F. Ramsey, Jr., CLU	'51	Skokie, Illinois
Edward A. Sheahan	'47	San Francisco and Menlo Park
David M. Thompson, CLU	'33	Los Angeles

Quotes From the Campus

. . . One of the most important contributions Stanford has made to the local electronics industry is our recruiting of graduate students in electronics. We bring the cream of the crop turned out by universities all over the country to the Peninsula.—*Provost Frederick E. Terman in a speech to local business and civic leaders*

To build a completely automated railway, untouched by human hands, would not require a single new invention or major breakthrough in technology. Every component device that is necessary is already in being today. —*Karl M. Ruppenthal, director, Graduate School of Business Transportation Management Program, at Association of Interstate Commerce Commission Practitioners annual meeting*

Talent, knowledge, success are important to human existence. Yet talent without dedication, knowledge without love, success without humility may easily be destructive.—*Rabbi Abraham Heschel of Jewish Theological Seminary, New York, the 1963 West Memorial Lecturer*

De facto segregation means that Negroes are segregated but nobody did it . . . President Kennedy goofed when he talked to Mississippi and the nation at the time of the Meredith affair. What we Negroes want is not someone to say "desegregate because it's legal" but "desegregate because it's right."—*James Baldwin, noted Negro author, during a May visit to Stanford*

My reluctant but realistic conviction is that parity—or from our point of view, superiority—in nuclear weapons is the best insurance of world peace. As long as the United States maintains superiority, or at the very least the nuclear deterrent remains mutual and stable, the chances for peace are enhanced.—*Chet Holifield, vice-chairman of the Joint Congressional Committee on Atomic Energy, at Stanford*

The ability of a teacher who does little or no research while teaching is likely to decline as he falls behind in his field.—*Kenneth J. Arrow, professor of economics*

Today a group of democratic nations might combine to destroy, in a given country and by means of joint action and intervention, a form of anti-democratic government. But who is to guarantee that the coalition of a group of anti-democratic governments might not proceed in an identical manner against a government ruled by the most righteous laws and the most democratic institutions, if the only thing that makes the act legal is the fact that it is collective . . . ? — *Dr. Rodolfo A. Weidmann, Argentine ambassador to OAS, in a Stanford seminar*

the two institutions. Directors of the project are Prof. Von R. Eshleman of the University's Radioscience Laboratory, Ray L. Leadabrand of SRI's Radio Physics Laboratory, and Prof. Allen M. Peterson, affiliated with both laboratories.

Most spectacular piece of equipment used in the program will be the 150-foot "big dish" radio-radar telescope located on Stanford's "antenna farm." One of America's three largest fully steerable dishes, it is SRI-built. Coupled with the dish is a powerful University-operated radio transmitter. Its million-watt input produces a 400,000-watt radar probe with which the dish can explore the sun, moon, planets, and plasmas of the solar system. Additionally, the equipment includes two 60-foot antennas, numerous antenna arrays ranging up to 2,000 feet in length, and a number of medium-power and smaller transmitters.

Support for the program comes mainly from the Air Force Cambridge Research Laboratories and the National Aeronautics and Space Administration, with additional aid from the National Science Foundation and the Office of Naval Research.

Is it a Woman's World?

THE EDITORSHIP of the *Stanford Law Review* and of the *Stanford Daily* will be in the hands of the distaff side next fall, the former for the first time.

Elected to head the *Law Review* was Brooksley Elizabeth Born of San Francisco. An English major as an undergraduate (Class of 1961), she at one time was planning to study medicine but switched to law "because I like lawyers very much—they're by far the most exciting group of people I've ever talked with." She plans to enter private practice after graduation, and eventually hopes to become a college law teacher.

Although not the first, Ilene Strelitz is one of the few women to have been elected to serve as editor of the *Daily*. A junior, she is majoring in political science and history honors. She is from Woodland Hills. Miss Strelitz has worked on the staff of the *Daily* for seven quarters, having taken time off only while she was attending Stanford-in-France. She had been serving as associate editor during the spring.

Eitner to Head Stanford Art Department

LORENZ EITNER, internationally known art scholar and teacher at the University of Minnesota, has been named chairman of the Department of Art and Architecture and director of the Stanford Museum. Also joining the expanded art faculty will be Dr. Albert Elsen of Indiana University, an outstanding art historian and teacher. Both will commence their new duties in September.

Need for additions to the art faculty is evidenced by the fact that some 700 students currently enroll in art and architecture courses each quarter. The Department is "bursting at the seams" and hopes to have a new building, expanded art library, and slide collection.

Both new faculty members have authored widely

(*Continued on page 6*)

INTERPRETER

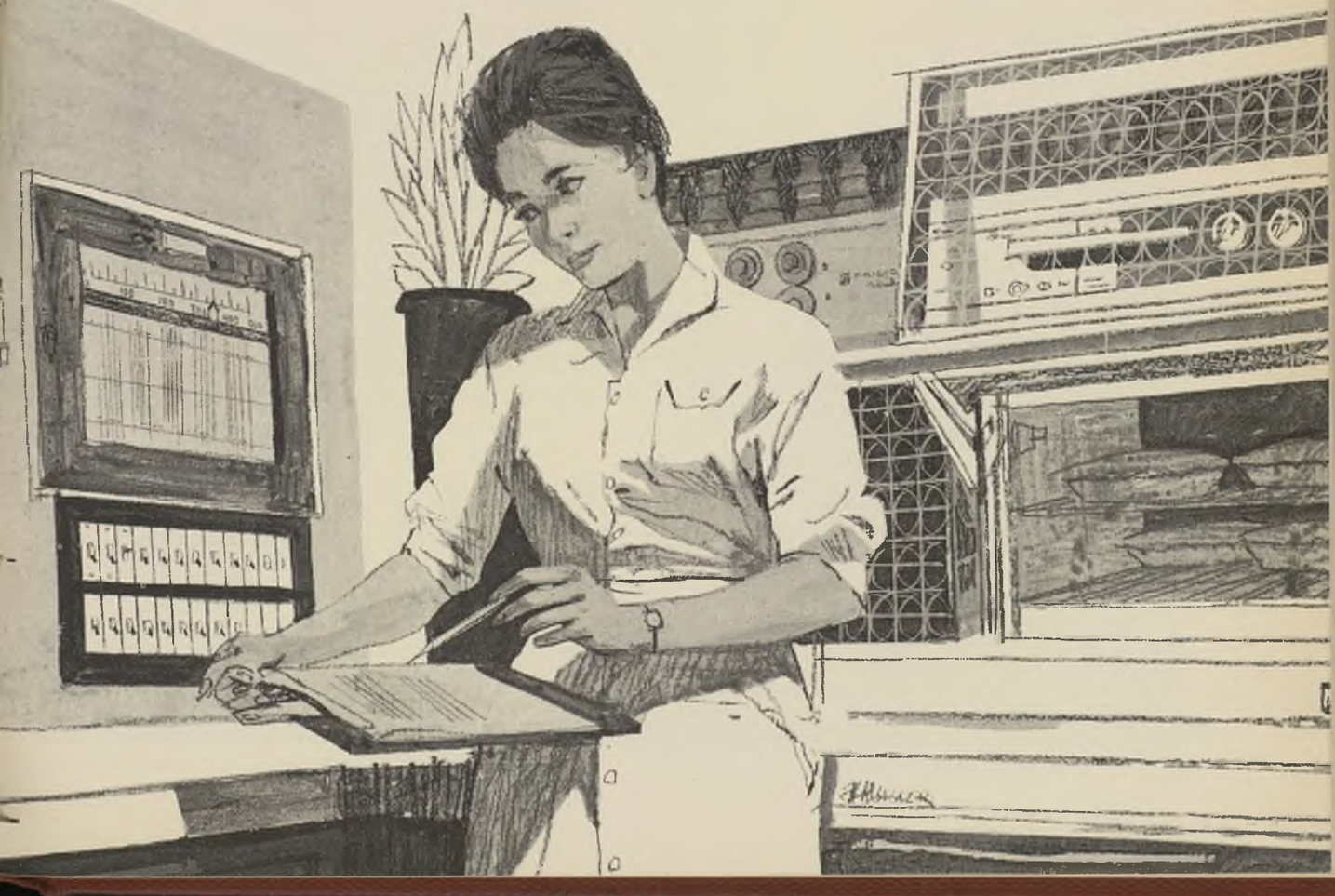
Slide rules and petticoats . . . what a combination! Incongruous? Yet this home economist, who is employed by the Frigidaire Division of General Motors, is involved with each. She wears many "hats" . . . tester, designer, writer, demonstrator. She conducts classes in home economics in schools and companies—teaches how to get the most out of new GM-built household appliances.

She and her counterparts spend full time interpreting the desires, needs and habits of American women in the kitchen and laundry room. Her department, for example, will bake enough cakes to make a stack 125 feet high just in testing a single oven design! In checking a new washer design, thirty tons of clothes are washed. In fact, she's "the voice of women" to the men who engineer and manufacture these appliances.

She's one more important member of the GM team—a team that includes more than 600,000 employes and a million-plus shareholders—as well as thousands of suppliers. Together they represent GM's greatest asset—*people*.

GENERAL MOTORS IS PEOPLE . . .

Making Better Things For You



respected books in their fields. Dr. Eitner is associate director of the College Art Association's project for the Study of Higher Education in the Visual Arts. Professor Elsen's scholarship on Rodin's sculpture led to his assignment to prepare the current Rodin exhibition for the Museum of Modern Art in New York. The Department's studio program also is expanding, through faculty appointments and the innovation of the painter-in-residence. First to hold this post will be Richard Diebenkorn, a leader of the new West Coast group of figurative painters who will be on the campus next year.

Memorial Plaza for 'Student Crossroads'

A GIFT from Mr. and Mrs. Raymond B. White of Kansas City will make possible the beautification of one of the busiest areas of the campus. White Memorial Plaza, dedicated to the memory of their sons, John Barber White II, '49, and William Nicholas White, '49, will link artistically the area between Tresidder Memorial Union, the Post Office, the Bookstore, the old Stanford Union, and the old Bookstore (now the Western Civ. Library).

Focal point of the plaza, restricted to foot and bicycle traffic, will be a fountain with sculpture by Aristides Demetrios of San Francisco. Landscaping, under the direction of Thomas Church, will help to create a park-like atmosphere in the area.

The sculpture, a free form abstraction, will rise 16 feet high from the center of a fountain pool 35 feet wide. The material will be copper sheet, to which will be welded bronze-textured metal in a multifaced surface pattern.

Work on landscaping will commence during the summer when traffic is relatively light. The sculpture will be added at a later date.

Both Jack and Bill White were killed within a few years after leaving Stanford—Jack in a surfing accident in 1952 and Bill in a training plane accident in 1948. Their father, a lumber manufacturer in Kansas City, is president and general manager of Exchange Sawmills Sales Co.

Gift Terms Must Be Explicit

RECENT NEWS COVERAGE of Stanford's refusal of a restricted gift offered under the auspices of the new Winds of Freedom Foundation left many with the impression that "conservative money" is no longer welcome, because reports implied that the University does not accept restricted gifts—and neglected to state the real reason this particular gift was turned down.

All universities accept restricted gifts of many kinds, of course, and Stanford is no exception. But such restrictions, whether relating to area of use as in the case of gifts for scholarships or construction, or to subject matter of teaching and research as in the case of some endowed professorships, are always spelled out clearly in advance and agreed to by both the institution and the donor. This procedure is followed with government and foundation grants as well as with private gifts.

The factor of advance agreement was missing in the instance that attracted newspaper attention. A sum of money was offered on condition that its use be decided later by a third party, in this case the Winds of Freedom Foundation, a new agency established unilaterally by alumni who want to insure that conservative beliefs receive adequate emphasis by inspiring financial support for that purpose. But since the procedure followed would have left the University in the position of promising to do something but not knowing what, the offer could not be accepted.

In reaffirming previous policy Stanford's Board of Trustees indicated a judgment that relaxation of the rule would be an abdication of legal and moral obligations of the University's controlling body. But this did not mean that restricted gifts are no longer acceptable, that "conservative money" is unwelcome, or that prospective donors can't continue to seek whatever advice and counsel they choose in establishing the terms under which they wish to offer support. It meant merely that, for the Trustees to make a decision, any proposed restrictions must accompany the offer.

The Straightest Way Between Two Points

AN ABANDONED railroad tunnel south of San Francisco is being used by Stanford Linear Accelerator Center (SLAC) physicists—to help determine how to draw a straight line two miles long without deviating more than one millimeter from dead center.

Their research, of course, will be used in the construction of the linear accelerator being built by Stanford under contract with the Atomic Energy Commission. Ultra-precise methods are needed to align the accelerator's 10,000-foot pipe through which electrons will travel at approximately the speed of light, smashing into nuclear targets at the end with energies of 10–20 billion electron volts. Under the direction of Kenneth R. Trigger, the group is trying to duplicate the underground environment and absolute darkness in which the accelerator will operate. They have installed a thousand feet of 12-inch steel pipe mounted on adjustable pedestals for their testing. Excavations for the accelerator's underground housing have begun at the SLAC site near Menlo Park. Completion is scheduled for 1966, with full operation beginning in 1967.

Other Stanford researchers, in the meanwhile, are preparing to build a one-foot experimental model of a new type of atom smasher—one that takes advantage of "superconductivity." If they are successful, a different kind of high-energy electron accelerator can be added to the arsenal of atom-smashing machines now being used throughout the world to probe the innermost corners of the atom. It would be similar to the present Stanford linear accelerators (linacs), but would have the advantage of a greatly increased "duty cycle" or time period during which the bombarding stream of electrons could remain on. This would permit certain experiments which can't be done with present linacs.

GUN LAP

TED PETERSEN

IT WAS a long time ago—I was a freshman at Stanford. There was a P.E. requirement, of course. I'd been a fullback in high school, but at 155 pounds and slow as the proverbial molasses, I couldn't beat out the likes of Biff Hoffman and Hank Millage, so I turned to track.

The track coach was, as you know, a fugitive from the practice of law, Dink Templeton. Many was the time that he turned a sow's ear into a silk purse. He did this in many ways: by imagination, slave driving, psychology, and sometimes by being downright devious.

One of his devices was to have all men enrolled in track compete in at least six events to see what nuggets he might find.

The day came when I was to run the mile. There were three overweight oafs, a thin little guy, and me. This will be easy, I thought, and I was right—partly. The corpulent ones lagged behind; the thin one and I kept on. He set the pace, but I was sure I could take him. Then came the fourth quarter, the gun lap. At the sound of the gun he took off and beat me by half a lap. He was Rufe Ranney, who became the top varsity miler. (I went out for soccer.)

We are now coming to the gun lap in PACE. Three-fourths of the dollar course has been run, and there is just one quarter to go. This is the tough one.

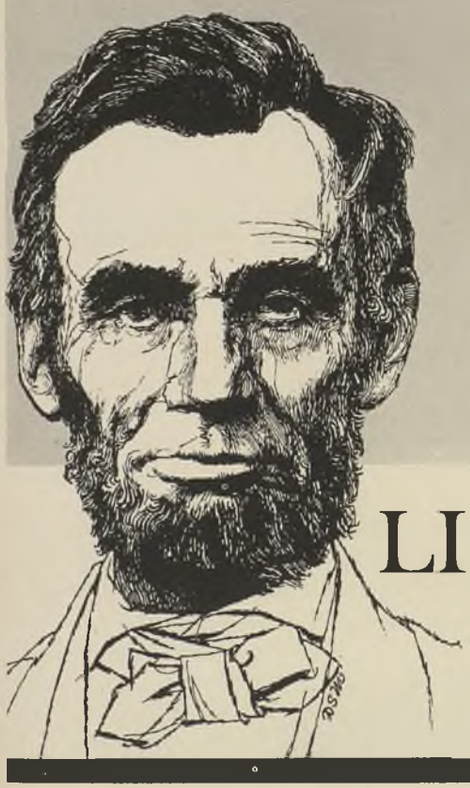
But we'll break the tape on time. Those who ask and those who give will see to that. It's time for the Optimist's Song, which was dedicated to Ted Petersen, that indomitable co-chairman of PACE, at a meeting on the campus last September. Remember the last song lap of *My Fair Lady*?

Good!! Good!! Good!! Good!!
I've grown accustomed to the PACE!
It always makes the day begin.
I've grown accustomed to the thrill
Of dollars in the till.
From states. From towns.
All ups, no downs,
Have made an optimist of me.
I breathe it out and breathe it in.
I was somewhat pessimistic before the PACE began;
Surely I can never be that way again—
For . . .
I've grown accustomed to those gifts,
Accustomed to their size,
Accustomed to the PACE.

LET'S GO! It's the gun lap.

David S Jacobson

GENERAL SECRETARY



"I believe... that every man may receive at least a moderate education, and thereby be enabled to read the histories of his own and other countries, by which he may appreciate the value of our free institutions."

Abraham Lincoln

LINCOLN SAVINGS

and Loan Association
630 West Sixth Street, Los Angeles 17, California

Thomas P. Pike, Director..... '31
Benjamin S. Crocker, Director.....Law '58
R. Dudley Hoover, Assistant Vice President..... '55

Welcome to a new classic at Stanford

The West's great new resort motor hotel
THE PALO ALTO CABAÑA

Centered in its own 12-acre setting a few minutes from Stanford. Pools, formal gardens, luxury appointments in mirrored-wall guest rooms, set a keynote of dignity and beauty for a class reunion or a nostalgic weekend. Exclusive golfing privileges, swimming, health club with sauna, dining and dancing.

Singles from $12
Twins from $16

CABAÑA
4290 El Camino Real • Palo Alto • DA 7-0800

Reunion Calendar

1918—45th Reunion

The Date: Friday, November 22 (The day before the Big Game)
The Locale: Crystal and Fountain Rooms, Fairmont Hotel
The Occasion: Cocktails and Buffet Supper
The Committee: Class President Carl S. (Jack) Kegley, Chairman Frank Schwarzenbek, Co-Chairman Reg Caughey—and a host of classmates

1923—40th Reunion

The Date: Friday, October 25 (The day before the Notre Dame football game)
The Locale: Rickeys Hyatt House, Palo Alto
The Occasion: Cocktails and Banquet
The Committee: Chairman L. Harold (Pete) Anderson, Vice-Chairman Dan Anzini

1928—35th Reunion

The Date: Friday, November 22 (The day before the Big Game)
The Locale: Golden Empire Rooms, Hotel Mark Hopkins
The Occasion: Cocktails and Banquet
The Committee: Chairman Judge Murray Draper

1933—30th Reunion

The Dates: Thursday, November 21, through Sunday, November 24
The Locale: Campus and environs (Cabaña Hotel, Reunion Headquarters)
The Program: Golf, buffet supper, and Gaieties on Thursday; panel discussion, luncheon, banquet at Menlo Circus Club on Friday; brunch, Big Game, victory dinner on Saturday; Church services on Sunday
The Committee: Ernest C. Arbuckle and W. Parmer Fuller III, Co-Chairmen

1938—25th Reunion

The Dates: Friday, November 22, through Sunday, November 24
The Locale: Campus and San Francisco
The Program: Friday golf tournament with luncheon near campus; Big Game and Dinner-Dance at Peacock Court of Mark Hopkins on Saturday; Fizz Brunch at Station J on Sunday
The Committee: Chris Redlich, Chairman (with *many* helpers!)

1943—20th Reunion

The Date: Friday, November 22 (The day before the Big Game)
The Locale: Palo Alto Hills Country Club
The Occasion: Cocktails and Dinner-Dancing (also golf tournament during the day on Friday and a brunch on Saturday)
The Committee: Co-Chairmen Verne Freeman and Warren Thoits

1948—15th Reunion

The Date: Friday, November 22 (The day before the Big Game)
The Locale: L'Etoile, at the Huntington Hotel, San Francisco
The Occasion: Cocktails (Dinner for those who wish to linger)
The Committee: Robert L. Coate, Chairman

1953—10th Reunion

The Date: Friday, November 22 (The day before the Big Game)
The Locale: Terrace Room of the Fairmont Hotel
The Occasion: Cocktails (from 6:30 p.m.)
The Committee: Peter Costigan, Chairman

1958—5th Reunion

The Date: Saturday, November 23 (Following the Big Game!)
The Locale: Executive Conference Room, Rickeys Hyatt House
The Occasion: Cocktails
The Committee: Art Pittenger, Chairman

(Left) Skillful hands lower the first of 172 fuel "bundles" into the reactor core during the initial fuel loading. The entire loading process took nearly six weeks!

(Right) In control room of atomic unit, Nuclear Engineer Dave Barton, Stanford '52, (at board) checks loading arrangement of reactor on schematic fuel cell array board.

CALIFORNIA'S FIRST FULL-SCALE ATOMIC POWER PLANT

California's first atomic reactor with full-scale power production capability is being added to PG&E's Humboldt Bay Power Plant. Just 17.3 tons of enriched-uranium fuel, the energy equivalent of 750,000 tons of coal, will provide Northern California homes and industry with a 60,000 Kilowatt power source for 3 years! With the second fuel loading, scheduled for 1965, PG&E expects to produce electricity as cheaply as conventional plants in the same region...a major step forward in the nation's atomic energy development program.

CAREER OPPORTUNITIES: As the nation's largest energy utility, PG&E offers careers in engineering and many other fields, and interesting day-to-day challenges. Interested? We will be glad to talk with you anytime. Inquire at 245 Market Street, San Francisco, or any Division headquarters.

PG and E

Pacific Gas and Electric Company

Faculty and Staff

Six to Join Emeriti

SIX FACULTY and staff members will retire at the end of the current academic year, concluding many years of service to the University. Those joining the emeritus ranks in 1963 include:

MARGARET C. BARR, associate professor of physical education and education. Mrs. Barr has been a member of the Stanford faculty for 30 years, coming in 1933 as a teaching assistant in physical education and resident assistant at Elm Cottage. She is a native of Missouri and a graduate of the University of Missouri. In her profession she has become an expert in hockey, fencing, archery, and English Country Dance.

Mrs. Barr's colleagues and former students paid tribute to her when they dedicated the annual newsletter of the Department of Physical Education for Women to her. Said the introduction, in part: "How much your name means to all the women who . . . have known you as a teacher, adviser, colleague, and friend on the campus and playing fields of Stanford University! In an age when standards are often lax, yours have always been of the highest. You are a perfectionist and expect others to be likewise. . . ."

HELENE BLATTNER, associate professor of speech and drama. Coming to Stanford in 1946, she has taught voice training, interpretation of literature, and phonetics and has done considerable research in the field of speech correction. She formerly taught at Texas Technological College and the University of Iowa. She is a graduate of the latter school.

Said Professor Robert Loper about her retirement: "She has been the main counselor and champion for hundreds of undergraduates just beginning their program at Stanford. In each case her kindness, genuine ability to make a student feel that he was not being swallowed into some great machine, and her firm pressure on the occasional laggard made Helene Blattner a very nearly ideal counselor for undergraduates."

BERNARD F. HALEY, professor of economics. A member of the Stanford Class of 1922, he received a master's degree the following year. He first joined the faculty in 1924. Professor Haley has served as executive head of the Economics Department and has had many professional affiliations, including the managing editorship of the *American Economic Review*. He currently holds a Ford Foundation research fellowship to study the Common Market and will join the University of California faculty this fall.

Said Edward S. Shaw of the Econ Department: "The beneficiaries of Professor Haley's Stanford career include his students, who knew him as a superb teacher, and his colleagues, whom he has served in both local and national context. They include the public whose welfare he has represented in government agencies."

JULES SHUCHAT
Band Leader to Retire

NEW EMERITI—From left, top row, Margaret Barr, Helene Blattner, Bernard Haley; bottom left, Grace Knopp; bottom right, Al Masters. No picture of Cornelis van Niel was available at the time of publication.

GRACE KNOPP, assistant professor of Spanish. A graduate of the University of Oregon, Professor Knopp received her AM from Stanford in 1930 and her PhD in 1933. She taught at MacMurray College before joining Stanford's faculty in 1942. Her teaching assignments have included first, second, and third year courses in Spanish. She has traveled extensively in Spain and Mexico and is co-editor of a Spanish novel.

Members of the Department noted that "she has been a loyal, hard working member of the Spanish faculty for these many years, taking on additional responsibilities without complaint, and always ready to lessen the load of other faculty members in times of stress. Her generosity has been equally evident with our students, whom she has helped and encouraged unceasingly."

ALFRED R. MASTERS, director of physical education and athletics. He received his AB from Stanford in 1924, serving as student body president and captain of the soccer team as an undergraduate. He returned to join the staff as graduate manager of athletics in 1925. Subsequently he became general manager of the Board of Athletic Con- (*continued on page 12*)

In what other business could you go so far in your first year?

Each of these five men recently finished his first full year with Massachusetts Mutual. And they averaged over $900,000 in sales.

Can you think of any other business where such rapid achievement would be possible?

As you read the biographies at right, you will notice that these men held widely different types of jobs before they joined Massachusetts Mutual.

How do you feel about *your* present job? Are you advancing as fast as you'd hoped? Do you really like the work you're doing? Or would you rather be in business for yourself like these men — and in a business which rewards you in direct proportion to your achievements?

If so, you should investigate the potential of a career with Mass Mutual. It is one of the oldest and strongest life insurance companies in the country with 2.6 billion dollars in assets. And it has an outstanding record of dynamic growth.

Just write a personal letter about yourself to Charles H. Schaaff, President, Massachusetts Mutual Life Insurance Company, Springfield, Mass. It could well be the most important letter you've ever written.

MASSACHUSETTS MUTUAL
Life Insurance Company
SPRINGFIELD, MASSACHUSETTS · ORGANIZED 1851

JOHN T. SODERSTROM

A native of Madison, Wisconsin, he retired as a Chief Petty Officer after 20 years in the Navy and joined our Honolulu Agency in August, 1961. His sales in the calendar year 1962 totaled 89 policies for $690,534. He was honored as the Company's first year Man of the Month in April, 1962.

WALTER W. MAUER

With seven years experience in sales and service in tangible goods, he became a member of our Harrisburg Agency in June, 1961. During his first 12 months he sold 39 cases for $916,384. In March, 1962 he was selected as the Company's first year Man of the Month.

PATRICK J. ROACH

A graduate of Marquette University, and a practicing attorney for six years, he joined our Milwaukee Agency in April, 1961, and in his first 12 months he sold 39 cases for $747,400. In each of the last 15 consecutive months he sold over $30,000 and in May of 1962 was chosen first year Man of the Month.

RONALD DAVIS BALSER

Graduated from the Wharton School of the University of Pennsylvania in 1960, he joined our Atlanta Agency in April, 1961. His 1962 ordinary sales amounted to 80.5 policies for $1,533,996. In each of the last 13 months his production exceeded $30,000.

GORDON E. GALLOWAY

A graduate of the University of Miami, he served three years with the USAF. After nine years of business experience first as a Tax Assessor, and later as a store manager he joined our Miami-Pierce Agency in March, 1961. His 1962 sales totaled 52 cases for $627,250.

Some of the West Coast Group alumni in Massachusetts Mutual service:

U. OF CAL.

John F. Curtis, C.L.U., '28, Los Angeles
Arthur C. Yearin, Jr., '48, Fresno
James A. Chapman, '52, San Francisco
David E. Smith, '56, Los Angeles
Julius S. Hauso, San Francisco

STANFORD

Edward Neisser, '26, Los Angeles
Lucia C. Mitchell, '28, Syracuse
Thomas W. Cordry, Jr., '33, San Francisco
Fred R. Miner, '40, Stockton
Jacob E. Way, Jr., '44, Waukegan
William W. Davies, C.L.U., '48, Los Angeles
Joseph F. Monasta, C.L.U., '48, San Jose
Robert H. Woodward, Jr., '49, Palo Alto
David C. Englehart, '53, Portland, Ore.
Ronald P. Tomsic, '55, Oakland
Earl F. Brown, '55, Los Angeles

U. OF OREGON

Carlo A. Apa, '42, Portland
Roy K. Temple, '44, Pendleton

FACULTY AND STAFF: (*Continued*)

trol and was named director of physical education and athletics in 1946. In 1948 he managed the U.S. Olympic Track and Field Team.

Masters' many friends will honor him at a dinner on August 31, the date of his retirement. The affair will be held at Rickeys Hyatt House, Palo Alto. L. Harold Anderson, '23, heads the committee making arrangements for the dinner. Reservations may be made through the Department of Athletics, Stanford.

CORNELIS VAN NIEL, Herzstein Professor of Biology. A native of The Netherlands, he received undergraduate and graduate degrees from the Technological University, Delft. He has taught general microbiology at Hopkins Marine Station during the summer and concentrated on research the rest of the year. His special field is the ecology, physiology, biochemistry, and classification of micro-organisms. He has held Guggenheim fellowships and is the recipient of numerous other professional honors.

Said Professor George Harmon: "Dr. van Niel is considered to be one of the world's outstanding classical microbiologists. He probably knows more about this subject than anyone else in the United States, and Stanford has indeed been fortunate to have him on the staff."

Awards and Honors

GUGGENHEIM FELLOWSHIPS "to further their development and accomplishments in their fields" have been granted to three members of the faculty for the coming year. They are:

Robert Ross Compton, professor of geology, whose continuing study is the structural development of the Santa Lucia Range in California;

George Albert Thompson, professor of geophysics, whose research is on the geophysics of ultramafic rocks; and

Walter Guido Vincenti, professor of aeronautics and astronautics, whose project involves high-temperature gas dynamics.

THREE MEMBERS of the faculty have been elected to membership in the National Academy of Sciences in recognition of their outstanding contributions to scientific research. They are Profs. William K. Estes, William M. Fairbank, and C. Stacy French. Considered America's top scientific society, it is limited to a membership of approximately 500 outstanding men in various science fields.

Professor Estes is a member of the Psychology Department and a renowned specialist in learning theory. He recently received the distinguished contribution award of the American Psychological Association.

Dr. Fairbank, professor of physics, is a leading authority in low temperature physics. He was California Scientist of the Year in 1962 and recently received the Oliver E. Buckley Solid-State Physics Prize of the American Physical Society.

Dr. French directs the Carnegie Institution's department of plant biology on the campus and is courtesy professor of biology. He is an expert on the photosynthesis of plant life.

DR. FRENCH has also been named to the American Academy of Arts and Sciences as have three other members of the faculty—William Summer Johnson, head of the Chemistry Department and noted organic chemist; Menahem Max Schiffer, former head of the Mathematics Department and expert on complex variables and conformal mapping; and Yvor Winters, Albert Guerard Professor of Literature who has been honored for his profound influence on young poets and writers of today.

NEW MEMBER of the American Academy of Physical Education is John E. Nixon, associate professor of education and physical education. The Academy membership is limited to 100 fellows who are recognized for "outstanding service in physical education, health education, or recreation."

DR. BAYARD Q. MORGAN, professor of German, emeritus, has received the gold medal of the Goethe Institute for "his service to the German language." He has written more than 40 books and numerous articles and has distinguished himself as an eminent teacher of German.

THE SIR HENRY DALE MEDAL, highest honor in endocrinology, has been presented to Dr. Philip E. Smith, professor emeritus from the Columbia University College of Physicians and Surgeons and a research associate in anatomy at the Stanford Medical School. He is the first American to be so honored.

An out-of-date Will may be as bad as none at all!

When you revise yours, ask your lawyer the advantages of naming this bank as executor.

THE BANK OF CALIFORNIA
NATIONAL ASSOCIATION
OFFICES IN CALIFORNIA, OREGON AND WASHINGTON

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

☆ Stanford's Favorite Since 1932! ☆
Refreshments ☆ Dinners ☆ Banquets
André's L'OMELETTE the FRENCH RESTAURANT & BISTRO
2 Miles South of Stanford on Old El Camino Real
☆ Closed Mondays and Tuesdays ☆

NEW PRESIDENT of the Western Psychological Association is Robert R. Sears, dean of the School of Humanities and Sciences.

DR. HAYES A. NEWBY, professor and associate director of the division of speech pathology and audiology of the Medical School, has been named president-elect of the American Speech and Hearing Association.

DR. JOHN A. LUETSCHER, professor of medicine, has received the John Phillips Memorial Award of the American College of Physicians because "he has stimulated and extended our knowledge of metabolic status" as "a brilliant student of metabolic disturbances in man."

NEW PRESIDENT of the American Statistical Association is Albert M. Bowker, dean of the Graduate Division.

Shuchat to Retire

JULES SHUCHAT, who has been director of Stanford bands since the end of World War II, is retiring. Those who have played with the band during the past 18 years of his leadership honored him at a dinner on Saturday, May 25 at Rickeys Hyatt House, Palo Alto. Letters and telegrams from former bandsmen were read at the banquet, and a gift was presented in appreciation of his years of service. Shuchat has been a member of the Palo Alto High School music faculty while leading Stanford's band.

Appointments to Faculty

AMONG APPOINTMENTS to the faculty and staff which have been announced in recent weeks:

Dr. Robert A. Chase of Yale University School of Medicine, who will become executive head of the department of surgery at Stanford in August. He has been serving as chief of the section of plastic and reconstructive surgery at Yale, and in 1962 was named outstanding teacher of medical science by the Yale graduating class.

Three additions to the Law School faculty—Howard R. Williams, who will be a full professor, is a specialist in the law of property and currently Dwight Professor of Law at Columbia; J. Myron Jacobstein, who will be law librarian and associate professor, is currently at the University of Colorado; Jared G. Carter, a 1962 Stanford Law School graduate now serving as clerk to Supreme Court Justice William O. Douglas, will be an assistant professor on the faculty.

Robert Summers, MBA '62, has been named to the post of director for fraternities at Stanford.

for a cool, comfortable Summer

OUR EXCLUSIVE, LIGHTWEIGHT SUITS AND SPORTWEAR

(shown) *Our Washable Suit of 7-Ounce Dacron® Polyester and Worsted in Town Wear Colorings,* $60

Our Featherweight Dacron® Polyester and Rayon Suits, $42.50

Our Remarkable Brooksweave (Dacron® Polyester and Cotton) Suits, $49.50; *Odd Jackets,* $37.50; *Odd Trousers,* $16.50; *Bermuda Length Shorts,* $13.50

Our Distinctive Tropical Worsted Suits, from $80*

Our Traditional Cotton Seersucker Suits, $37.50; *Odd Jackets,* $27.50; *Odd Trousers,* $12.50

Handsome Lightweight Terylene® and Irish Linen Sportwear. Odd Jackets, $50; *Odd Trousers,* $25; *Bermuda Shorts,* $16.50

*Slightly higher west of the Rockies.

ESTABLISHED 1818

Brooks Brothers
CLOTHING
Men's Furnishings, Hats & Shoes

201 POST ST., COR. GRANT AVE., SAN FRANCISCO 8, CAL.
727 WEST SEVENTH STREET, LOS ANGELES 17, CAL.
NEW YORK • BOSTON • PITTSBURGH • CHICAGO

The Stanford Family Forum

Cheers for Magazine . . .

ONE OF THE fringe benefits of having a son graduated from Stanford is being able to read Stanford publications addressed to my son, Robert, prior to forwarding them to him at the University of California at Los Angeles where he is studying medicine.

The March-April, 1963, edition of the *Stanford Review* was especially interesting, in my point of view. I have thoroughly enjoyed the long presentation on Academic Freedom . . .

WILLIAM B. HAYWARD
Oakland

THE MARCH-APRIL *Review* was the best I have read in 15 years. Congratulations on a fine job.

LOUIS TAUBMAN, '44
Palm Springs

HOLY SMOKE!

You really hit the jackpot with that last issue!

Whew!

KEN METZLER, Editor
Old Oregon

EDITOR'S NOTE: Mr. Metzler's magazine is pretty good too. Few Stanford alumni see it, fortunately, which minimizes the invidious comparisons.

. . . And the Conferences

MORE STANFORD CONFERENCES in the future and a tribute to Faculty Co-ordinator for Conferences Dr. James T. Watkins IV, and to the alumni of Colorado Springs and Denver who made the 1963 affair successful . . .

Also *more* Karl Brandts and Charles L. Seegers (only two professors I heard). I was totally absorbed by Brandt's "Miracle, Menace or Mirage?" (European Common Market) but I want to give special mention to Seeger because although his talk was titled "On the Thresholds of Space" he actually talked on "Science and Sociology," the finest integration of these two subjects by a man who is NOT parochial but lively and interesting . . .

Under the always skillful hand of Watkins the annual panel of students was—as usual—the fulsome dessert . . .

MAURY M. TRAVIS, '27
Denver

Students Save Child, Win Friends in Japan

ENCLOSED I send you my translation of a news mention in a local newspaper . . . These two Stanford boys have done very good work, worthy of celebration.

HARUMI OKAMOTO, '19
Kyoto, Japan

TRANSLATION: On the afternoon of March 5th, two American collegers who were here on a trip happened to find an infant about to be drowned in a stream running near the Gingaku temple of the city. They immediately jumped into the cold water with their clothes on and rescued the small boy. The students are Henry Smith, 22, a postgraduate student of Stanford University, Calif., and John Leeds, a senior student of the same university, both of whom are located in Tokyo studying Japanese history, etc., and were in Kyoto during the spring vacation. The saved boy was identified as Koichi Nishimura, three years old, living in the neighborhood of the temple, and his father, Genshiro, heard the news of his boy's safety with jubilant satisfaction.

In order to express the gratitude of the citizens, Kyoto Municipality is expecting to hold an official celebration on May 2nd, in which to celebrate these two Stanford students for their meritorious act.

'Two Kinds of Learning'

MY REASON for writing is to tell [Dave Jacobson] how much I was inspired by [his] tribute to Donald Tresidder in the November issue . . . What especially struck me was the part on the "two kinds of learning," and the job it is trying to make both types available at the University. This is so true. Looking back at my career at Stanford, I find that I missed a lot because I had not matured enough before entering the sanctuary of the University. As a result I flew off in a thousand different directions with complete lack of purpose. Nevertheless, everything has magically fallen into place now, and one of the main reasons for this is that Stanford has the knack of initiating ambition and intellectual curiosity into students who are basically unreceptive. I know, for this is what Stanford has done for me.

I am in the Peace Corps [overseas] and it certainly brightens things up to get such books as the *Stanford Review*.

NAME WITHHELD

The Education of Women

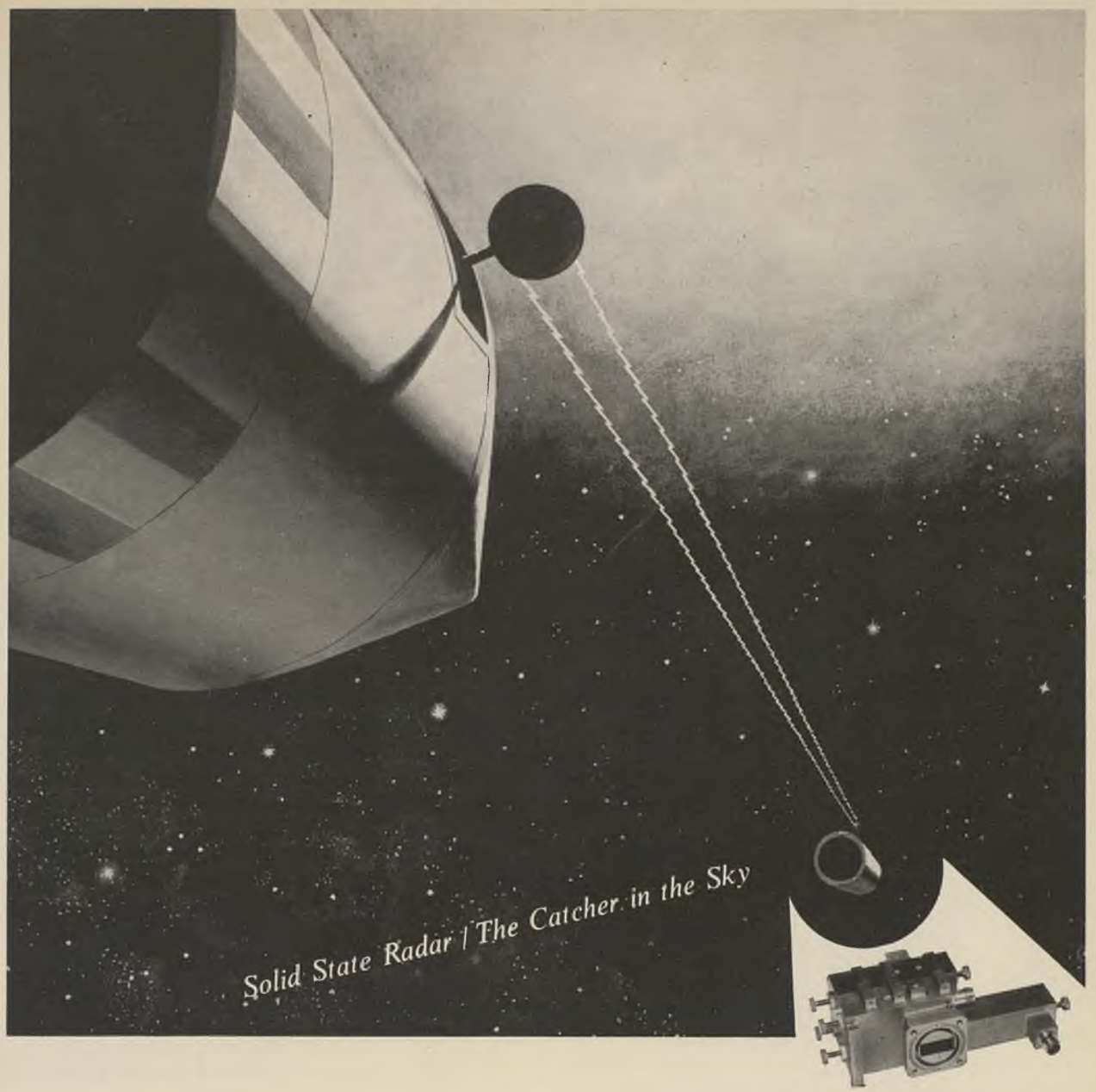
MOST OF OUR universities educate us women exactly the same as men. I'm surprised they even ask our sex on our registration cards. It is assumed that we are all going to embark upon careers immediately after graduation and compete with men. If a woman confesses to her counselor or schoolmates that she wishes to marry, she is considered frivolous. She is wasting her parents' money!

How ridiculous this approach is. Women are not like men. And their proper role in society is vastly different from that of men. Isn't it time that we emphasized this fact? Young men, as well as young women, need to be taught that their roles are complementary—not identical. A co-educational college or university is the best place of all in which to practice this philosophy.

A woman should not be made to feel guilty when she marries soon after graduation and doesn't use her college education right away to earn money. Rather, her parents and university should emphasize that her college years are a key to further understanding of the world's cultures and that it is her job to study them and to pass this knowledge on to her children. This takes much reading and conversation even after college. A woman who works while her children are young is cheating herself, her husband, and these children by not fulfilling this important role. In fact, she is hurting society. We must smooth the jagged edges of our materialistic way of life in this country by emphasizing beauty and service as well as money. This is woman's role.

During the early years of marriage and children, a woman should also become a part of her community and volunteer a few hours each week to help make it a better place in which to live. A college education is invaluable in giving her the confidence and ability to make a genuine contribution to community organizations. Children can be shown in this way that service is an important part of living in a community.

Only if a woman is a homemaker does she have the time to teach her children about music appreciation, art, and literature. This is because she herself must have time to read, to be creative, and to enjoy the arts. (*Continued on page 48*)



A new solid state radar system built by STL engineers and scientists can send out and receive signals at X-band frequencies to help man rendezvous and dock vehicles in space. STELATRAC is its name. It is the first solid state system of its kind. The X-band transmitter is shown above. It has successfully passed temperature and vibration tests. STELATRAC can also be used as a command link between vehicles in flight. By altering its module design, the flexible radar system operates as an altimeter and doppler velocity sensor to guide spacecraft safely to the surface of the moon and planets. Today STL is busy on many such projects as STELATRAC. STL is also prime contractor for NASA's OGO and a new series of classified spacecraft for Air Force-ARPA. And STL continues Systems Management for the Air Force's Atlas, Titan and Minuteman programs. These activities create immediate openings in Theoretical Physics • Systems Engineering • Radar Systems • Experimental Physics • Applied Mathematics • Space Communications • Antennas and Microwaves • Inertial Guidance • Analog Computers • Solid State Physics • Computer Design • Telecommunications • Space Physics • Digital Computers • Guidance & Navigation • Electromechanical Devices • Engineering Mechanics • Aerodynamics • Propulsion Systems. For Southern California or Cape Canaveral positions, write Dr. R. C. Potter, Department CM, One Space Park, Redondo Beach, California, or Box 4277, Patrick AFB, Florida. Your inquiry will receive a prompt reply. STL is an equal opportunity employer.

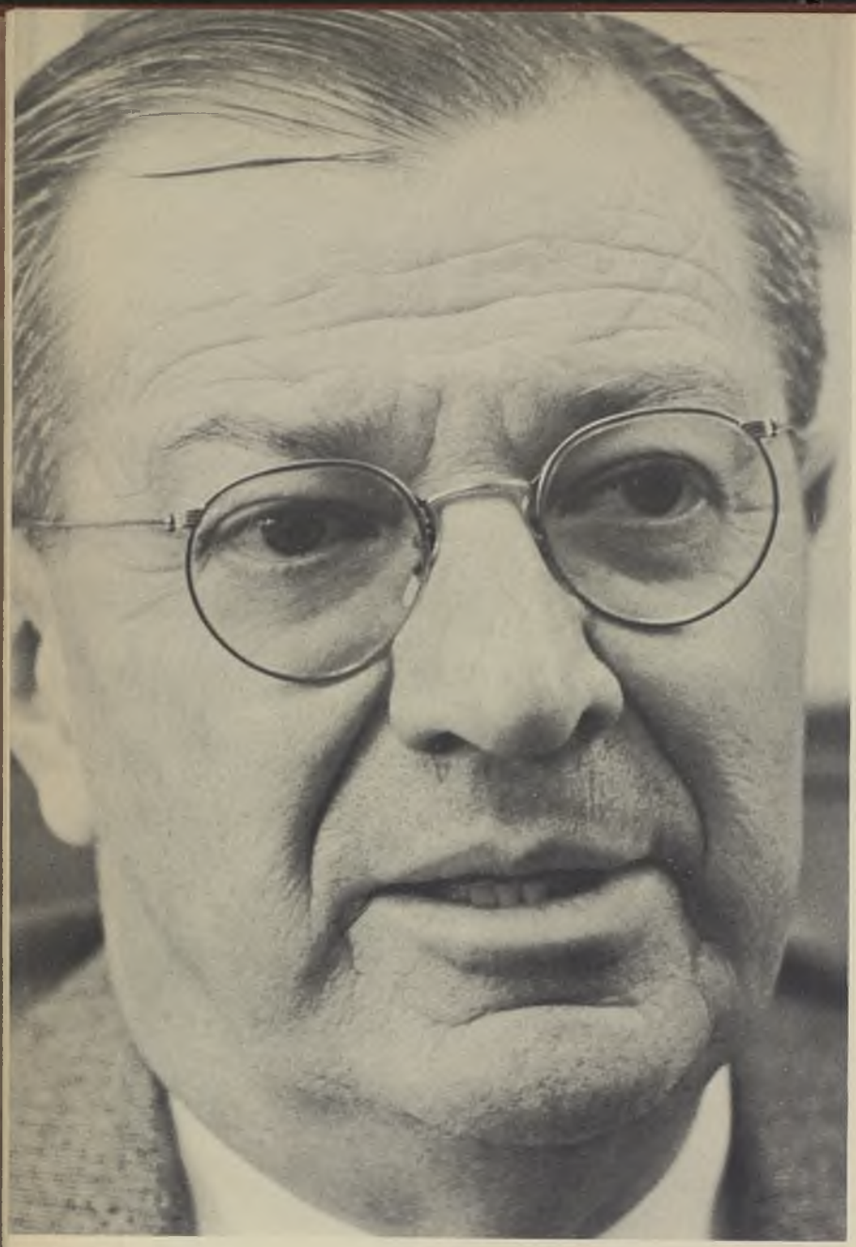
STL

SPACE TECHNOLOGY LABORATORIES, INC.

a subsidiary of Thompson Ramo Wooldridge Inc.

818-A

Los Angeles • Vandenberg AFB • Norton AFB, San Bernardino • Cape Canaveral • Washington, D. C. • Boston • Huntsville • Dayton • Houston



By Frederick E. Terman
Provost
Stanford University

Sooner or later, when people discuss the dramatic growth of the electronics industry on the San Francisco Peninsula, someone will point out that the key element in this growth has been Stanford University and its Provost, Frederick E. Terman, who during his many years in the School of Engineering as Professor and then Dean turned out more outstanding electrical engineering PhDs than anyone else in the world. It's the access to trained brainpower provided by this area that has been irresistible to the industry. Noted Stanford son of a famous Stanford father, Provost Terman was selected to deliver the second annual Distinguished Alumnus Lecture last spring. He chose to discuss this country's vital and increasing need for scientists and engineers trained to the limit of their intellectual capacity, and the great loss this society sustains when able students terminate their training at the baccalaureate level. This article offers his assessment of the need and a suggested means of meeting it.

Scientific and Engineering Manpower In a Highly Competitive World

THERE IS MUCH TALK these days about the shortage of engineers and scientists. Much concern is expressed over the fact that Russia is today turning out more than three times as many men and women with bachelor's degrees in engineering, and over twice as many with bachelor's degrees in science, as are being produced in the United States. Great alarm is voiced each year, when statistics are released showing that fewer students in the fall freshman class selected engineering as a major than the year before. Additional uneasiness results when analysis of enrollment statistics shows that this dropping off in the number of engineers is not made up by a corresponding increase in the number of students in mathematics and the physical sciences.

While this situation has generated much talk, it has until recently produced very little else. There has been little analysis of our manpower needs, and there has been even less action as far as doing something about them is concerned. Yet something needs to be done.

This is an age of technology. The standard of living of our nation is based on a high level of industrial technology; economic growth in the years ahead will depend even more upon the work of the engineer and the scientist. The underdeveloped nations are underdeveloped precisely because they lack roads, electrical communications, modern industries, adequate transportation, electrical and other forms of power, and the other good things of life that come from an advanced technology. Even more important, our survival as a nation, that is, our military security, depends upon the technological strength of our nation now and in the future.

There presently exists a titanic struggle for world supremacy between the Communist world and the free world. The last time a comparable situation existed was over two thousand years ago, when Carthage and Rome fought it out in a life-and-death struggle that ended with Rome becoming dominant over the then civilized world for over five hundred years. The events of the next several decades will probably determine what kind of a world is going to exist for the next hundred, or five hundred, or even thousand years, just as did the struggle between Rome and Carthage.

Russia came out of World War II with a military technology that was relatively primitive but with an obsession to dominate the world. The Russian leaders recognized that to gain world domination they must achieve supremacy in the technologies contributing to military strength, including space. In the postwar years, the entire educational system in Russia, from elementary school through high school and university, was reorganized and coordinated in a deliberate, cold-blooded, calculated way to produce the engineers and scientists required to maximize Russia's technological strength. It is this planned and aggressive program, sustained over a long period of time, that is responsible for there being so many engineering and science graduates in Russia today.

The Russians' success during the past 18 years in improving their position in technology has been frightening. At the end of World War II their electronics was primitive, their airplanes were simple-minded, and they had not even started work on the atomic bomb. Today Russia has sophisticated electronics, such as multi-beam microwave radar, it has solid state devices, and large computers. Russia has first-class jet airplanes, and hydrogen and atomic bombs. Russia's ballistic missiles for military and space have reached each new level of achievement both sooner and with bigger payloads than have our missiles.

ALTHOUGH the United States is still ahead in the overall picture, the overwhelming technological gap that existed in 1945 between the defense technology of the United States and that of Russia has been greatly reduced. It could entirely disappear in another 10 or 20 years. It is significant in this connection that the number of engineers and scientists in the Russian labor force is already significantly greater than the number of scientists and engineers in the labor force of the United States, and this superiority will increase with the passage of time. Moreover, the engineers and scientists in the Russian labor force are predominantly young, with the result that this force has not yet reached its full peak of effectiveness. It can be expected to improve in competence in the next decade as a result of maturity and increasing experience.

There is no reason for complacency in this situation. There is no law of nature guaranteeing that the United States will maintain world technological leadership in the years ahead. Smugness and self-deception are not only unwise—they can have catastrophic consequences. Technological leadership must be earned in the first place, and earned again each year. History, moreover, shows that such leadership is fickle. During the first half of the 19th century, France was the most advanced industrial nation on the European continent. This came about as a result of the creative forces released by the French Revolution, combined with the stimulation that followed from the strong emphasis placed on technology during the Napoleonic era. In the second half of the century France was displaced by Germany, which under Prussian leadership placed great emphasis on education in science, and on the practical application of science. This entire German program was state initiated and state planned. It began in the first half of the century, when the German rulers decided that it was in the interest of the state to have a highly literate population, which in the new type of world of commerce and industry that was unfolding, would be able to read labels, shipping tags, instructions, etc. It was accentuated by the French

success in the Napoleonic wars, which thinking Germans felt must have in part been related to French leadership in education. In the latter part of the 19th century, steadily increasing emphasis was placed on science and technology in the German universities, and this trend became especially strong after the unification of Germany that followed the Franco-Prussian War of 1870. The great importance accorded scientific and engineering education and research by Germany in this period is indicated by the fact that a substantial portion of the huge French war indemnity of 1871 was given to the separate states of the German Federation for the direct support of education and research. This and other state support made it possible to increase the numbers of university teachers and to improve their salaries, and generally to strengthen the science and engineering programs in German universities. Reminiscent of discussions we hear today in this country, some Germans became concerned about unbalance within the universities between these newly developing fields and the classical subjects. Thus the great philosopher Nietzsche spoke bitterly of the German universities as having become nothing more than "science factories."

However this may be, these actions resulted in the great flowering of science and technology and the remarkable industrial development of Germany that took place in the latter part of the 19th century and which continued until the beginning of World War I. It is very significant to note that this entire development took place through action planned by an autocratic state. This points up the fact that just because we have a democracy while Russia does not, does not guarantee that technological supremacy will remain with the United States.

The present danger to the United States arises from the fact that Russia has a clearly defined goal that it is determined to achieve, and from the fact that Russia has for many years had a program for action in effect for developing the manpower required to achieve this goal. In contrast, the efforts we have made to date to strength our manpower position in technology and the physical sciences are uncoordinated, lack vigor, and are left largely to chance. If this situation continues, Russia will probably be on top within another one or two decades, at least in military technologies.

The fact that today we have a commanding lead over Russia in connection with consumer goods, and that we will probably retain this lead for many years does not balance the situation. In the great struggle which we presently call the cold war, it is naked power that counts when the chips are down, and Russia is not going to be severely handicapped in such a showdown by lack of electric toothbrushes, or by the fact that they have fewer bathrooms than we do in the United States.

Modern military space devices make use of the latest developments in science in imaginative and complex ways. An example is the intercontinental ballistic missile, with its several stages of power plants, its

"A point of honor with Soviet scientists is to establish Soviet science in pre-eminent position in the most important branches of knowledge and to occupy the foremost positions in the world in all fields of science."

As Provost Terman points out, Russia produces many more EMP graduates, at the baccalaureate level, than does the United States, but he also suggests that this fact is much less crucial than the number of graduate degrees granted, because four years is no longer adequate to prepare young men and women for leadership in the increasingly sophisticated technological endeavors of the 1960s. The important question then is: Does this disadvantage in numbers extend to graduate work in engineering, mathematics, and physics?

The answer—for the present, at least, and for the future also if Dr. Terman's warning is heeded—is No. Thanks to Nicholas K. Rokitiansky, '47, of the Office of Education in Washington, the *Review* is able to offer some comparative data. This information was extracted from a 12-page article by Rokitiansky and Dr. Clarence B. Lindquist which was published in the February issue of the *Journal of Higher Education*, and additional notes supplied by Nick Rokitiansky.

Although the USSR has a much larger population, U.S. college enrollment at all levels is higher. This is especially true at the PhD level and its Russian equivalent. In 1960 the United States had 117,000 graduate students formally enrolled at the intermediate and terminal levels, of whom nearly 34,000 were working in the EMP area. Total formal enrollment in the USSR in that year came to only 36,754, but a majority of these—approximately 21,000—were in the EMP area because government "encouragement" of scientific study is as strong for graduate students as it is for undergraduates.

In spite of its disadvantage at the bachelor's level, the United States would seem to have a still formidable lead in graduate EMP training. However, Russia also grants the candidate degree (their PhD equivalent) to large numbers of men and women who have not pursued a formal course of study at a higher educational institution or scientific-research institute, so the actual American and Russian figures may not be far apart. Also, only 48% of U.S. graduate students are full-time, as against 63%

guidance system of incredible accuracy, its computer and other electronics, its fusing system and a nuclear warhead. The solid state devices such as the transistor that have so transformed electronics in recent years are another example. Military supremacy is increasingly dependent upon the ability to devise and produce in quantity systems involving such highly complicated devices.

In this connection it is to be noted that basic scientific concepts are not confined by national boundaries. We invent the transistor but the whole world makes them; the Russians were the first to appreciate that the ICBM was possible, but we have them too. The ability to make use of such knowledge in a way that contributes to military strength is dependent upon: (1) the existence of a reasonable industrial base, which the Russians now have, (2) a pool of qualified engineers and physical scientists available to work upon these advanced systems and devices, which the Russians also have in ever growing numbers and competence, and (3) the willingness of the nation to place overriding priority upon a limited number of really important military devices, even at the expense of the civilian economy—a willingness the Russians have repeatedly shown that they possess to a far greater degree than we do.

The Russians have during the past 18 years since the end of World War II demonstrated their ability to produce results. They developed an atomic bomb in five years from a standing start. They had a hydrogen bomb within less than a year of the time we first exploded a hydrogen bomb, and their first bomb was a better bomb than our first, and operated on a different principle which we have since adopted; it is also to be noted that the largest hydrogen bomb exploded to date was a Russian bomb. Their military jet aircraft are today fully comparable with and in some cases superior to our own. I have already pointed out their success with ballistic missiles. The Russian tanks outperformed the U.S. tanks in Korea. In other words, there is no cause for complacency. While we are enormously ahead in goods for the cilivian economy, the chicness of our women and our electric razors do not add much to our military strength.

Much emphasis is placed on the fact that Russia today is graduating approximately three times as many engineers and twice as many scientists as the United States. The implication is that if more of our high school graduates would only choose engineering and science as a career, so that we could turn out more warm bodies stamped BS, we would have no need to worry. This just isn't true.

Many of our weapons, all of our space devices, as well as much of our civilian technology involve the most advanced technology of which we are capable. This makes it desirable that every individual studying to be an engineer or physical scientist be trained to the full limit of his intellectual capacity. For those capable of significant responsibility in science and engineering, a four-year college course is no longer adequate. There is just too much that should be learned, and on-the-job experience is no substitute for formal training when

of Soviet graduate students. (Lindquist and Rokitiansky point out that opinions differ concerning the quality of Soviet degrees as compared with American degrees, but express no judgment of their own.)

In addition, comparing the number of graduate students in the "pipeline" makes it obvious that many in both countries drop out before achieving the doctorate. U.S. institutions now grant upwards of 10,000 doctorates a year, but this is only a tithe of the 117,000 who have completed at least a year of advanced work. Since publication of the article Rokitiansky has discovered a Russian statement that their 1961 total was 7,152—seemingly a much higher proportion of the numbers enrolled, but no doubt inflated by the Russian practice of awarding degrees to people not formally enrolled in educational institutions.

Dr. Terman states that EMP doctorates in the U.S. in 1962 amounted to 3,400; because Russian education demonstrates a strong scientific bias at all levels it's likely that they awarded at least as many and possibly more—but if there is a Russian advantage here, it's obvious that it's far smaller than at the bachelor's degree level.

However, Americans are not the only ones who see the importance of expanding graduate EMP studies, and it may be that an acceleration of the magnitude Dr. Terman suggests will be necessary just to keep up. In an appended note Rokitiansky points out that Soviet enrollment in higher education is expected to triple by 1980, with graduate enrollments increasing accordingly. He also enclosed a statement issued by the XXII Congress of the Communist Party of the Soviet Union just last year:

"A point of honor with Soviet scientists is to establish Soviet science in preeminent position in the most important branches of knowledge and to occupy the foremost position in the world in all fields of science."

Russian manpower provides great potential strength, but Russian *womanpower* has played an important role in Soviet scientific achievement. More than a third of their scientific researchers are women, and 30,000 of these women hold advanced degrees. In 1960, of Russia's 36,754 aspirants to the candidate degree, 8,405 were women. In the past decade of Russian scientific expansion the *relative* number of women taking advanced training has dropped considerably, but the actual number has remained about the same; on a percentage basis the United States does less than half as well.

The Soviet Union's centralized government control of educational priorities, it should be said, has been able to strengthen the EMP area only at the expense of other disciplines which have remained strong in countries where students are free to choose their own careers. The social sciences, for example, are becoming increasingly important to science and technology as well as to government, and the Russian disadvantage has become so great that Soviet leaders are beginning to murmur about it.

They are at an even stronger disadvantage in teacher training; though less dramatic, this factor could have long-range influence. —*D. E.*

dealing with advanced technologies. An inexperienced college graduate does not obtain a real insight into the quantum electronics of the transistor by on-the-job experience. At present only 3.6% of the engineering graduates go on to obtain a doctor's degree, and only about 8% of the graduates in mathematics; yet engineering and mathematics account for over 70% of the bachelor's degrees in the engineering, mathematical, and physical (EMP) sciences. While approximately 16% of those graduating in physics and chemistry go on to obtain a doctor's degree, this doesn't help too much because the physical sciences account for less than 30% of the EMP graduates. Thus many young EMP graduates of high ability, particularly in engineering and mathematics, do not obtain as much training as would be desirable for their own good or for the good of the country.

TODAY'S technological and scientific manpower pool of the United States is clearly more adequate in quantity than it is in quality. Companies are in general able to find enough warm bodies for their basic billets. However, far too often employers fill positions with men who are not fully qualified to do the work that needs to be performed. Repeatedly employers fill positions at bachelor's level when men with master's and doctor's training were desired but not available, and at master's level when Ph.D's were wanted.

This situation downgrades the effectiveness of the entire weapons and space program. As a result of inadequate quality of personnel, projects take longer to complete than they should, often fall substantially short of the desired objectives, and in some cases are even cancelled through failure to solve within a reasonable time all of the problems involved. I know of no major program that failed primarily because it was impossible for the recruiters to find enough warm bodies with diplomas. I have, however, seen more than one program washed out because those who were working on the project did not have the competence to find answers with reasonable speed to the problems that arose.

The difference between success and failure, between a rapid development and one that drags out so long as to lose its timeliness, is determined by the success in solving the more difficult problems involved. Here the quality of mind involved is all-important, and the lack of high-level ability and thorough training cannot be compensated for by an increase in the numbers of warm bodies. The international competition in advanced technology can be likened to an international track meet: How many men does our nation need on its missile team who can run an intellectual mile in five minutes to balance out a half-dozen men on the opponent's missile team whose training enables them to cover the same distance in less than four minutes?

The same thought is expressed by the noted Russian physicist and academician, I. Tamm. In his article "The Search for Talent," *Izvestia*, January 3, 1962, Dr. Tamm states; "Ten struggling mediocrities do not replace one talented individual." As an aside, it is interesting to note that Dr. Tamm's paper is concerned with improvements needed in the education of Russian scientists and in the leadership of the Russian scientific effort. He states that stress should be placed upon completing university education at the earliest age, that more effective selection procedures with less attention to political criteria are needed, that both students and teachers should do more research, that university research facilities should be appreciably increased, and that teaching loads should be reduced to permit carrying on of more research and to facilitate scientific growth on the part of teachers. Tamm, who is an elderly man himself, also favors an age limit on administrators so that the posts of scientific leadership will be held by comparatively young scientists, "especially those who are in the full bloom of their creativity." This article in *Izvestia* was no doubt inspired, as it was synchronized with press announcements of important changes in the organization of the Russian scientific program. It is clear that along with its interest in numbers, the Russian state is also striving to improve the quality of its scientific and technological program.

I HAVE POINTED OUT that the most important thing that can be done to strengthen the manpower pool of our nation is to improve the quality of this pool through more emphasis on graduate level training. The size of the pool measured in numbers of BS degrees produced per year is less important than the quality. In fact, there is a real question as to whether we really need more warm bodies at all. Also, we can never hope even at best to outnumber the Russians in view of their larger population, their ability and willingness to direct young people into engineering and science irrespective of individual preference, and the high proportion of Russian women who follow careers in engineering.

Moreover, even if a substantial increase in BS degrees in EMP subjects was desirable, there is very little that can be done to increase the numbers of BS graduates significantly before 1970. This is because those who are to follow a college program in EMP must start science and mathematics courses during the last year of junior high school or at the latest in the first year of senior high school. There is thus a seven-year interval between the time the student decides on science and engineering as a career, and the time he emerges with a bachelor's degree, and seven years from now brings one to 1970.

In fact, the only really major improvement that can be made in our scientific and manpower situation for work to be performed during the next decade is to get more productivity from those who have already entered the

collegiate pipeline. This is because those who enter college as freshmen in the fall of 1963 will not obtain a bachelor's degree before 1967, a master's degree before 1968, or a Ph.D until after 1970. It then usually takes several additional years of experience before a young man becomes fully effective as a producer, particularly if he has only a bachelor's or master's degree.

The improvements that can be achieved by working on those who are now well along in the collegiate pipeline are substantial.

1. It is possible to increase greatly the number who elect to go on for master's and doctor's training, particularly in the engineering and mathematical sciences. This increase can begin to affect the strength of the manpower pool within several years.

2. It is possible to shorten significantly the time that it typically takes a young man to obtain the master's and doctor's degrees. This will enable those who have the best education to become productive earlier in life, and to have more total years of productivity available.

3. It is possible to improve the quality of training available by strengthening existing strong centers of graduate study, and developing new centers.

Whether or not the free world has adequate technological and scientific manpower to meet its needs, particularly the space and military needs, will be determined almost entirely by the United States. The present educational systems of the NATO nations are not adequate to make a major additional contribution. Any significant improvement of the situation during the next decade will necessarily have to come from the United States.

In the United States, the responsibility for achieving any major improvement rests with the federal government. The individual states, faced with the necessity of providing for a constantly growing number of undergraduate students, cannot be expected to assume the major responsibility for the international competition with Russia. Private philanthropy does not have the resources. While the federal government should work in cooperation with existing educational institutions, both public and private, our national need for the strongest possible pool of scientific and engineering manpower for the cold war will be met only through federal action if it is met at all.

Up to now there has been no large-scale coordinated attack on the problem of maximizing the strength of our manpower pool for technology and the physical sciences. The fellowship program of the National Science Foundation is a constructive activity, but its 1962 funding level of about $12.5 million in the EMP area is only a token effort relative to the total needs of the nation. In fact, in recent years NSF has had far more funds available for institutes for high school teachers than for fellowships to provide advanced training in EMP to meet the needs of the cold war. By way of further comparison, the National Institutes of Health in fiscal 1962 had $118.5 million available for training grants and $29 million for research fellowships just to produce *research* workers for health sciences—(none of this goes to producing MD's). A corresponding effort is needed to meet the needs of the cold war, which are probably even more important for national survival than improvement in the nation's health.

Most of the financial support presently available for the training of engineers and physical scientists at graduate level is obtained indirectly through research programs sponsored by various agencies in the Department of Defense, NASA, the National Science Foundation, etc. These programs are, in general, well conceived and are administered with intelligent understanding. However, the fact is that in Department of Defense projects the primary objective is not to strengthen the manpower pool of the nation, but to carry out research which the Department of Defense feels needs to be done. The same is true with research programs supported by AEC and NASA, and to a considerable extent with NSF programs. Applications for research grants and contracts are judged primarily on the merits of the work that is proposed, and on the competence of the investigators who will be supervising the work. Whether or not students are being trained is secondary, and even when students are involved the research grant or contract provides only for a student stipend, and makes no allowance for the cost of the student's education or for providing the space he requires. It is not an overstatement to say that in the United States the training of engineers and physical scientists at advanced levels is generally a byproduct, rather than a primary objective, and has been in the past left largely to chance and caprice. In contrast with this unplanned drifting on the part of the United States, Russia has been making steady progress towards its sharply defined objectives.

A year ago this situation caused the President to request that his Science Adviser, Dr. Jerome Wiesner, examine the nation's resources of scientific and technical personnel in relation to the demands being placed upon these resources for military security, space exploration, and economic progress. A panel, of which I was privileged to be a member, was appointed to undertake this work.

After careful study, this panel became convinced that the most serious shortage in our manpower pool of engineers, mathematicians and physical scientists is in the inadequate supply of those who combine *high ability* with *graduate level education* that has already been discussed. To meet this need, the committee has recommended a coordinated program linking federal and private efforts to increase the number of those who are now studying in these fields who choose to go on to graduate study. Because the program initially would

involve students who are already in college, it has the advantage of meeting imminent shortages promptly.

The goals that the committee set up were to increase the number of doctor's degree recipients in the EMP area from 3,400 in 1962 to 7,500 in 1970, or 120% in eight years. This is in contrast to an increase in yearly output from 2,100 to 3,400, or 60%, in the previous twelve years, 1950–1962. It also contemplates an increase of 130% in the number of master's degrees from 13,000 in 1962 to 30,000 in 1970; this is in contrast with the 1950–62 increase from 9,000 to 13,000 per year. The program also contemplates that the number of first-year graduate students in EMP, and also the number of graduate students beyond the first year, will in 1970 be over twice the number during the present school year.

These are large increases, and represent a rate of yearly growth several times as high as has existed in the past. To achieve this result the panel has recommended a four-point program that would provide:

1. A massive student aid program to permit a large *increase* in the number of graduate students who will be financially able to pursue *full-time* graduate studies in the EMP area.
2. Funds to cover the full cost of graduate education of the *additional* students.
3. Funds on a matching basis to provide for additional physical facilities and also funds for equipment grants.
4. Funds for developing new centers of excellence in the EMP area.

Financial aid for students on fairly generous terms is required because otherwise graduate work does not appear too attractive to a bright young man who can command an initial salary of approximately $7,000 per year with his bachelor's degree in engineering. It is also important that this financial aid for students be in a form that will make it possible to devote full time to pursuit of a graduate degree. Work may be good as a builder of character, but if it is performed in order to subsist and does not contribute significantly to graduate training, it delays the time at which an advanced degree is received and hence the time when the student begins to contribute to society, and it makes the graduate program less desirable to the student.

Funds to cover the full cost of education of the additional number of graduate students in educational institutions are an essential part of the recommended program, because otherwise there will be a shortage of capacity. While the existing institutional capabilities are adequate to train all of the qualified students who are *now* going on for graduate work, a substantial increase in this number will quickly bring the student load beyond the present capabilities of first-rate educational institutions, and the availability of superior training will then become a limiting factor. For these reasons, it is necessary that any manpower program provide funds to cover the cost of expanded programs of education, and for the associated expansion of physical facilities. Moreover, even then institutional capacity will become a limiting factor unless present centers of strength are substantially expanded, and unless in addition new centers of excellence are developed.

Implementation of the program proposed will require approximately $150 million additional from the federal government for fiscal 1964 over and above support available from all sources in the fiscal period 1962–63, growing slowly to about $300 million by 1970. The budget recently submitted to Congress provides this sum by recommending expansion of existing programs of present government agencies. Only a part of the total is included in the controversial "Aid to Education" bill. The largest part is in the increased appropriation recommended for the National Science Foundation, with lesser amounts provided in recommended expansions of existing training programs of other agencies, particularly the space agency, NASA.

Now $150 million or $300 million is a great deal of money. However, this nation is currently expending several tens of billions of dollars per year in research, development and engineering for new weapons, for new devices for space, and for new things that expand and strengthen our civilian economy. Since the number and the value of the results obtained from this huge expenditure are determined largely by the competence of the nation's manpower pool in the engineering, mathematical and physical sciences, an investment that improves this EMP manpower pool will pay handsome dividends.

Thus the proposed program can have a real impact on the nation's security and nation's growth. In a single decade this program will more than double the number in the nation's EMP work force with master's and doctor's degrees. Moreover, if continued for a second decade, it will, as a minimum, produce another doubling.

Thus for a sum that is approximately $150 million in the initial year, and rising slowly to approximately $300 million per year by 1970, this nation will buy military security, assure itself of continued technological superiority in the world, and will increase very greatly the value received from the several tens of billions of dollars we devote to research, development and engineering.

This country, rich as it is now, can hardly afford the inefficiency and hence unnecessary expense that will result from not spending the money required to give it the best possible manpower pool in the engineering, mathematical and physical sciences. Moreover, with our continued existence as a free nation at stake in the face of a determined enemy, we don't dare risk proceeding into the future without possessing the strongest science and technology of which we are capable.

A Man of Vision

By Graham H. Stuart

The author, Stanford's noted professor of political science, emeritus, delivered this year's Founders' Day Address. In response to many requests he has converted his talk about Leland Stanford into this Review *article.*

Merely to enumerate Leland Stanford's accomplishments inspires us with a feeling of awe. This man of vision and achievement, born 139 years ago, conceived, helped build, and served as president for 28 years of the first transcontinental railroad which linked California with the rest of the United States. He was chosen governor of California early in the Civil War and directed the policies of the state wholly in the direction of the Union and the administration of President Lincoln. He was one of the few men in American history elected to the Senate of the United States against his wishes, and without at any time seeking the support of any group or individual. The *Los Angeles Times,* which opposed his election, conceded that his high character, known integrity, and distinguished ability qualified him for the position, and went so far as to call him California's most distinguished citizen. Finally and most important of all, he founded, endowed, built, and made careful arrangements for the development of one of the great universities of the entire world.

As a poor farm boy in a fairly large family, Leland Stanford obtained only a secondary education. However, he was ambitious and after completing his studies he entered a law firm. Three years later he was admitted to practice. While studying law he became engaged to Jane Lathrop, whom he married two years later while practicing law in Port Washington, Wis. She proved to be the most vital influence in his life.

Stanford's brothers had gone to California and were prospering in business there. When a disastrous fire burned Leland's office and his valuable but uninsured law library, he decided to join them. He was soon a successful merchant in Sacramento and was fortunate in some mining investments. It was at this time that he met Crocker, Hopkins, and Huntington, who with Stanford became the Big Four who organized the Central Pacific Railroad Company. It was also at this time that Stanford entered politics and helped organize the Republican Party which later made him governor.

Although Leland Stanford and Jane Lathrop were married in 1850, it was not until 18 years later, in 1868, that their first and only child was born, a year before the Golden Spike was driven in at the ceremony of the completion of the first transcontinental railroad. Leland Jr. grew up to be a friendly, studious, intelligent boy, so satisfactory that his mother declared that "God made him all that the fondest parents could desire." Andrew Dickson White, first president of Cornell University, declared that he was struck by Leland's manliness and his simple, substantial, thoughtful character. His untimely death was a shattering experience for his parents. It was at this time that the father conceived the idea of a memorial to his son . . .

As a practical businessman, Stanford visited the great universities in the East to get the opinions of their presidents regarding his project. He was particularly impressed with Gen. Francis Walker, president of Massachusetts Institute of Technology, and White, former president of Cornell. Both refused the presidency of the embryonic institution, but Walker made a long recommendatory report very useful to the architects on plans for the buildings, and White sent Stanford to see his former student David Starr Jordan, then president of Indiana University, as a very suitable head for the new university. Jordan was offered the presidency and accepted immediately.

While discussing the problems of founding a university with President Eliot of Harvard, the question of expense had come up. When President Eliot learned that no tuition was to be charged he said it would need an endowment of $5 million. Mrs. Stanford looked grave, but her husband smiled and said, "Well, Jane, we could manage that, couldn't we?" In fact, at the beginning Stanford University had an endowment larger than those of Harvard, Columbia, Johns Hopkins or Cornell.

There was some scoffing at the idea of a new private university in California when the State University at Berkeley, after more than a decade of functioning, had less than 300 enrolled students. One commentator declared that the professors at Stanford would lecture to empty benches, in marble halls; an eastern editorial writer said, "There is about as much (*Continued on page 31*)

A lot of years have passed, but many readers will recognize the people Mrs. Lamport recalls so affectionately in this vignette—even though their real names are not "Sven" and "Bob."

SVEN

By Muriel K. Lamport

The first time I saw Sven he was sitting on a bench by the side of the empty swimming pool at the Lodge in majestically beautiful Yosemite Valley. It was the last week in June and just a few days before the official summer opening of the season. The pine air was like sparkling golden wine with just a cool tinge. At first glance he seemed younger than his 45 years because of his well-conditioned body with the long smooth muscles of a swimmer.

Sven was holding court to a laughing group of girls and fellows. His faded blue denim eyes squinted against the sun and made his eyelids peak up toward the center and down at the corners, giving him the benign expression of a spaniel.

As I walked up the listeners howled with laughter and begged for another story, so he related a fantastic exploit of swimming five miles under ice. I was to learn that his wild yarns always broke on the hilt of their innate implausibility, but not until he had his listeners holding their breaths and waiting for the next sequence.

Like myself, the rest of this young crowd had come from schools in the Bay Area to work for the summer, and Sven was a great drawing card because of his reputation as a swimming coach. He had sent both boys and girls to the Olympics and was equally noted for his understanding, openhandedness, and earnest desire to help young people reach their goals. It was not beyond him to send travel money to some kid working his way through Stanford or Cal. This took some doing, because he was usually broke and had to borrow on his salary. Even though Sven worked as swimming instructor every winter at some San Francisco pool and migrated to Yosemite in the summer, he just seemed to make ends meet. But money, or lack of it, never stopped him.

I've often wondered if Sven had any notion of his terrific influenc over many years we would sl be ing about him.

As always, Sven l a mer. He had se hir trip as soon as he cou scra I went to the village d r order to this Stanford y, a he arrived. Bob was rdiu brown eyes, straight wn fell forward over his w— nose that earned him nick tremely good natured al a —the most tireless swimmer was Sven's hope that he wou pion. Several years lat his

Meanwhile Bob was ven er. He took charge of t po and even the desk.

One afternoon whil Bo a tall, crewcut young an pool ticket, but what I re suit so he could swim in he up from his pile of suit

"I'm sorry, fella, but e pany's suits for use ou de

The young man lookd I always swam in the riv a like pools with all tha ch them."

Bob looked at Sven ad a him one of my suits, ho al

Sven shrugged his ou went to get the suit Sv c Merced was still pretty col

"I don't mind—as lo g a was the reply. Bob can b boy a pair of plaid trun s.

"Thanks a million—I l about an hour." He ra to bounded over the low loc panion—a young girl w h blue jeans over a bathi g s away into the trees beyn the Merced.

Not more than 15 in woman, excited nd looking for Sven. Drivig they had spotted a gir h

rocks. When they tried to help her she wouldn't leave because her boy friend was still in the water.

Sven locked the office and grabbed Bob by the arm. Both knew what had happened. The couple sped them to the girl, who was still looking frantically into the water. She told Sven she had been caught in a whirlpool. In rescuing her the young man had himself been caught in the tugging water and sucked under the surface.

Sven took a long look at the river. Pointing to an eddy about 10 feet from the bank he said to Bob, who had stripped to his trunks: "That's where he will be. Dive carefully because there are many jagged rocks here."

Bob made a flat surface dive and found the boy on the first attempt; when his head broke out of the eddy after his second dive he was swimming on his back and had one arm around the unconscious youth.

Sven and Bob tried everything they knew, but it was too late. Bob took it very hard. Sven tried to assure him that he wasn't to blame but he kept repeating, "I shouldn't have given him the suit. Maybe it wouldn't have happened."

FOR THE ENTERTAINMENT of the guests at the Lodge and Camp Curry we were to put on a water show that evening. We usually had a lot of fun doing it—racing, diving, and lots of clowning. The last act was a sensational fire dive Sven had taught Bob. He wore a heavy fireproofed cotton suit with strips of cotton sewn all over the back, the sleeves, and the helmet.

Bob would walk to the end of the high board and I would douse the cotton with kerosene and then light it. Flame swept to the top of his head and he made a swan dive into the pool. It was a breathtaking sight, like a huge bird in fiery flight against the backdrop of black velvet mountains etched on a moonswept sky.

This night I turned my head for a second as I waited for Bob to come out and climb to the 20-foot board. When I looked back he had already started up the ladder. This was my cue to follow him with the torch. I didn't notice anything different until I had set the cotton aflame.

He only nodded when I asked if he was ready, but then I noticed a small piece of crumpled white paper floating in the pool below. I realized that this was not Bob but Sven. That paper was a marker Sven used for high diving accuracy.

A hundred thoughts crossed my mind. How long had it been since Sven had made a dive like this? Was he sure of himself? After I touched off the flame he waited much longer than Bob before taking off and I was fearful. But then he made a perfect flat layout swan dive to crashing applause from the spectators. Why didn't he come to the surface? I was all the way down the ladder before he popped up at the end of the pool. I breathed a sigh of relief and wondered about Bob—where was he?

Sven said Bob was in the locker room "feeling pretty lousy." We went in and there Bob lay on a bench, sobbing. Sven stroked the back of his head and coaxed: "Come on fella, don't take it this way. You did everything you could. Get your shoes on and we'll all go down to the wienie roast at Mirror Lake."

Our friends had a campfire going and were sticking hot dogs onto branches to hold over the fire. "Hi Bob! Great going, you were really in there pitching today trying to save that fellow's life. You took quite a chance yourself, jumping into that whirlpool. Notice the fellow with the car didn't try it!"

Bob looked surprised. One of the boys put his arm across Bob's shoulder and steered him to the fire. Another handed him a wienie on a stick. As Bob gradually responded to this warm treatment Sven watched with that little smile on his lips—the rest of his face immobile—that was so typical of him.

SUMMER'S END found us all back in the Bay Area meeting at one pool or another, but mostly at one in Oakland where Sven was in charge. He was training Bob for the big yearly event—the Golden Gate swim—and with Sven in the boat guiding him, he won. As usual the newspaper account and picture made no mention of his trainer—Sven was always content to see his protege receive all the honors.

The last time I saw Sven he was sitting on a bench at the pool with a bunch of youngsters around him. As I approached I heard him telling about how he had made a swan dive off Half Dome into Mirror Lake a quarter of a mile away.

Stanford Books and Authors

We initiated this book review section only last October, and already we have solid indication of two kinds of responsiveness—which, in turn, emphasize our obligation to meet two kinds of responsibility.

First, letters and oral comments confirm that there is an audience for this kind of coverage. Some readers are actually buying books on the basis of what we say here. This we expected, or we would not have devoted space and effort to book reviews in the first place.

Second, we are being flooded with books for review—books we didn't ask for because we didn't even know about them. In two or three cases these offerings had no discernible connection with Stanford, Stanford alumni, or higher education in general. This was not expected. We were confident that eventually we would establish ourselves with authors and publishers, but we thought it would take time. Apparently those who rely on book sales are so eager for promotion that review copies are harder to avoid than attract.

Obviously our primary responsibility is to the readers of the *Stanford Review*. The fact that seven people sent mail orders to the Stanford Bookstore following our favorable report on Thomas A. Bailey's *The American Spirit* last month is not going to make Professor Bailey rich. Total sales would not be greatly affected even if a hundred other readers placed orders at local bookshops. But anyone who spends $8 for a book on someone else's recommendation has a right to expect that the recommendation will be, if not always "right," at least reasonable—and scrupulously honest.

This means that judgment must be exercised. Books must be rated on their own merit, and cannot be given rave reviews just because the authors happen to be Stanford professors or alumni. And if the subject matter or manner of presentation insures that a book will have only limited or specialized interest, this must be indicated. Above all, the book must be *read* by the person writing the review. We will note the existence of a volume we have not seen if requested to do so, but we will not pretend to "review" it.

Adherence to such standards may bruise the feelings of an occasional Stanford author, but it's better to do that than to be dishonest with our readers through an ill-advised compulsion to be "positive." Up to now, at least, we think we have met this responsibility well. The first book we accorded a "rave" (Stanford University Press's *Pearl Harbor: Warning and Decision* by Roberta Wohlstetter) has just won a Bancroft prize as one of the three best works in American history, diplomacy, and international relations published during 1962. Wallace Stegner's *Wolf Willow* has received the Black Hawk award (see picture) in competition with several other successful books, including *Fail-Safe*. Up to now Professor Bailey's book hasn't garnered any awards, but it hasn't been out very long; and awards or no awards, we hold to our judgment that it's as good as the best.

We have another kind of responsibility—to the publishers and authors who rely on us to give potential readers fair and accurate reports on their work. We criticize as well as review because reviews which offer no judgment are about as virile as a dust jacket blurb. But too often a critic is only a reviewer who thinks he knows more than the author. This is because most critics are self-appointed, and self-appointment is an egotistical act. If the ego is not carefully controlled it can lead to three major irresponsibilities:

1. An inclination to employ the devastating but superficial wisecrack, which gains the critic standing as a wit by destroying serious work that, while perhaps faulty, still has considerable merit.

2. A tendency to demand that everything be written the way the critic would have written it himself, which—aside from the fact that the critic usually could not possibly have produced that particular work—would, if widely observed, inevitably lead to the deadliest kind of literary conformity.

3. A weakness for posing as a great omniscient expert on every subject that comes up; no mortal can be so well informed; one suspects there is more bum dope handed out in reviews than in all the books discussed.

Avoiding these pitfalls is a full time job in itself, and occasional sins are inevitable. But perhaps our criteria provide more protection than most, because we *want* to say something nice about every book we review if we possibly can. When our praise is restrained, or limited in scope, you can be sure this is deliberate. It's our way of keeping faith with our readers.

From the first we have hoped to build a "stable" of qualified reviewers expert in many fields, but we thought we'd have plenty of time for this task and that staff effort could carry the main load for quite awhile. But the number of books, and the range of their subject matter, changes that estimate. We aren't particularly diffident about our ability to handle general material in-

tended for a lay audience, but it would be presumptuous for us to attempt critical evaluation of presentations calling for specialized professional knowledge. Staff judgments in this area will be confined to such matters as readability, style, and logic.

Perhaps these criteria should have been spelled out before we ever printed our first review. In any event we feel obliged to do it now, at the end of the book review section's first publication year, and have provided extra space for that purpose. Since requests for reviews have been so heavy, and our next issue won't appear until October, we'll have to cover a large number of books with considerable brevity. We hope these terse notices will be sufficient to indicate subject matter, scope, and treatment.

ONE OF THE THINGS we have planned to do, in addition to covering "Stanford" books, is to review outstanding works of broad general interest by noted scholars and commentators who have no Stanford affiliation. We are selective and perhaps somewhat arbitrary in choice, but the intent is to consider only the best.

The first book we're calling to your attention is *Anti-intellectualism in American Life* by Richard Hofstadter (Alfred A. Knopf). Hofstadter, professor of American history at Columbia, has received high critical acclaim for several of his efforts, and his *The Age of Reform* won the Pulitzer Prize for History in 1955.

Many readers will remember that Prof. Philip H. Rhinelander cited Hofstadter's studies in his discussion of academic freedom in last month's *Stanford Review*. Hofstadter's new book takes up much more than academic freedom, but it will be an important source book on that subject. The author describes the ups and downs of what he calls the American intellectual through the centuries (this reviewer insists that the word "intellectual" should be used only as an adjective), and his descent in the public mind from "highbrow" down to "egghead." Reviews of this book have been a bit mixed; some critics hold that Hofstadter overstates his case and that some of what he regards as anti-intellectualism is merely indifference. But those who are interested in ideas and those who promulgate them will find this volume fascinating, even when they disagree with it.

Wallace Stegner (right) has received the Black Hawk Plaque for *Wolf Willow*, his personalized history of the Montana-Saskatchewan border area. The plaque is awarded annually to the author of the book voted best of the year by an Iowa-born writer. Chief Black Hawk, who dictated his autobiography in 1833, is considered the first Iowa author. Stegner, professor of English and director of the Stanford Creative Writing Center, is noted for his novels, essays, and histories of the West. Presentation of the plaque was made by Arthur Kroeger, professor of marketing in the Graduate School of Business, who heads the board of the Stanford Bookstore.

Roger Ascham was a Tudor scholar and Latin epistologist who reached maturity during the reign of Henry VIII. During the brief tenure of Henry's ill-fated son Edward he was secretary to the king's ambassador to the court of Emperor Charles V, and later served at the courts of Queen Mary and Queen Elizabeth. When Elizabeth was a teen-ager, in fact, Ascham was her tutor for a time. No critical biography of Ascham, in English, had ever been attempted until Associate Professor Lawrence V. Ryan of the English department took on the job. The result is *Roger Ascham* (Stanford University Press).

Ryan describes his work as an "attempt to present the story of Ascham's life accurately and sympathetically, to trace the generation of his three principal English works from his reading, his personal experience, and his letters, and to assess his contribution to the intellectual heritage and prose literature of Elizabethan England." In these aims he succeeds. One learns that Ascham was a minor figure, learned but without originality, but that his ability merited higher position than he ever attained. His works give added insight into the day-to-day workings of 16th century government and into life at Cambridge University. And, although a brilliant student of Latin and Greek, he exerted beneficial influence on effective use of native prose.

Social Pressures in Informal Groups by Leon Festinger, Stanley Schachter, and Kurt Back (Stanford University Press) is a reissue of that rarity, a research monograph by young doctoral candidates which quickly became a definitive work inspiring other scholars. The book was first published in 1950, and Festinger is now a professor of psychology at Stanford. Its popularity over a period of 13 years demonstrates that "people who work with people" will find it invaluable.

Management in the Space Age by Fremont E. Kast, MBA '49, and James E. Rosenzweig (Exposition Press) is primarily for scholars and (*Continued on page 30*)

Vacation Suggestions from
STANFORD UNIVERSITY PRESS

HISTORIC SPOTS IN CALIFORNIA

Mildred Brooke Hoover, Ethel Grace Rensch, and Hero Eugene Rensch

"Remarkably compact and lucid style. . . . Priceless as a source book bulging over with countless intimate and forgotten stories."—*San Francisco News.* "Pleasing style . . . Presents a great amount of local history, mostly of the type not easily available elsewhere."—*Frontier and Midland.* "Whether the reader be tourist, immigrant or native son, he will find the items associated with incidents and personalities in such a way as to increase their local interest and sometimes to give them national significance."—*Pacific Historical Review.* $6.95

CALIFORNIA LANDMARKS

James D. McClure

"More than one hundred photographs and maps with sprightly text in a way calculated to arouse every latent wanderlust."—*Popular Photography.* "The author and compiler—and also photographer—has made an excellent selection. . . . His photographs have been taken of the unusual and little known landmarks, and from the vantage point of an artist."—*Historical Society of Southern California.* "An invaluable traveling companion. . . . A most interesting guide."—*National Motorist.* $4.50

EXPLORING DEATH VALLEY

Ruth Kirk

"Just about the best guide on Death Valley we've ever seen. . . . Illustrated with beautiful photographs, including some stunning wildlife shots."—*Westways.* "A sensitive appreciation of one of our unique national areas."—*Nature Magazine.* "No better guidebook of the area exists today, and the visitor to the monument can ill afford not to own a copy."—*National Parks Magazine.* "Highly recommended."—*Library Journal.*

Paper, $1.95

BETWEEN PACIFIC TIDES

Edward F. Ricketts and Jack Calvin

"Delightful book. . . . Informal but sharp and accurate. It is warmly and unpretentiously written, packed with fascinating information and communicates the enthusiasm of the authors to the reader."—*Scientific American.* "This book is highly recommended to all those interested in the fascinating world of seashore life." — *Copeia.* "One of the most fascinating books I have come upon in a long time."—*Saturday Review.* "Unquestionably the best [edition] of this impossible-to-do-without reference that has yet appeared." — *California Fish and Game.* $8.75

SEA SHELLS OF TROPICAL WEST AMERICA

A. Myra Keen

"The book is one every malacologist will welcome, and because it is written in nontechnical language it will be equally sought after by amateurs."—*Natural History Magazine.* "A valuable piece of work, well written, copiously illustrated and intelligently arranged, qualities that ensure maximum utility for minimum effort."—*Conchological Society Journal.* "The finest single-volume monograph of a molluscan faunal province ever published."—*Central California Sportsman.* $12.50

SEQUOIA AND KINGS CANYON NATIONAL PARKS

John R. White and Samuel J. Pusateri

"Beautifully written, handsomely printed book."—*Pacific Discovery.* "We cannot imagine anyone planning to devote much time to a visit to these parks being able to manage successfully without this book in hand."—*Nature Magazine.* "Now at last the twin national parks . . . have a guide worthy of their grandeur."—*The Argonaut.* "Supplements its guide functions with a historical brief on the parks, a story that makes good reading in itself."—*Berkeley Gazette.*

Paper, $1.50

Order from your bookstore, please

Vacation Suggestions from
STANFORD UNIVERSITY PRESS

DESERT WILDLIFE

Edmund C. Jaeger

"An exciting series of intimate natural history sketches."—*San Francisco Chronicle.* "These most readable stories lose none of their scientific authenticity through being spiced with the author's pleasurable associations with these creatures in the wild." —*The Washington Post.* "Although its approach is basically scientific, the text is highly readable and is drawn mainly from the author's experiences. . . . The creatures in these sketches are seen through the eyes of an observer and they emerge as real individuals."—*The Magazine of the Buffalo Museum of Science.* $5.95

THE NORTH AMERICAN DESERTS

Edmund C. Jaeger

"Jaeger knows more about the elusive life of the American deserts than anyone writing today, and he has the gift of sharing his 40 years of acquaintance with those arid regions in a highly readable style."—*Chicago Sunday Tribune.* "This book should come right after drinking-water on the list of necessities for the desert traveler."—*Landscape.* "It is difficult to imagine how a small volume could offer a more useful survey."—JOSEPH WOOD KRUTCH, *The American Scholar.* $5.95

DESERT WILD FLOWERS

Edmund C. Jaeger

"Shows careful selection of material, an intimate and accurate knowledge of the flora and fauna of the Colorado and Mohave Deserts, and a remarkable facility with a drawing pen."—*Journal of the New York Botanical Gardens.* "Will be permanently useful to those who seek to know the desert through the changing seasons of its blooming. It will be a recurrent joy to all those who have ever known its charms and terrors."—*Biological Abstracts.* $5.00

THE CALIFORNIA DESERTS

Edmund C. Jaeger

"If you are going to the desert this year . . . put it on your 'must' list right now."—*Pacific Discovery.* "This is an excellent handbook for either the prospective traveler or the fireside reconnoiterer." — *American Forests.* "Here is a model guidebook, for its presentation is artistic, its facts correct and well chosen and the deductions therefrom modern." — *Nature* (London). "A fascinating volume."—*New York Times Book Review.* $5.00

MAMMALS OF CALIFORNIA AND ITS COASTAL WATERS

Lloyd Glenn Ingles

"An outstanding work and one which will greatly increase interest in mammal study . . . . Will also be of value to conservationists and wildlife administrators who wish a good reference book on the subject."—*California Fish and Game.* "Text material is lucid and engrossing and the illustrations excellent."—*AIBS Bulletin.* "Authoritative, readable, and of absorbing interest not only to Californians but also to naturalists in other countries."—*The London Times.* "Definitive book on the mammals of California."—*Berkeley Gazette.* $6.75

FAMILIAR BIRDS OF THE PACIFIC SOUTHWEST

Florence V. V. Dickey

"The answer to an amateur ornithologist's prayer!"—*Sunset Magazine.* "A handy, attractive and valuable guide."—*Nature Magazine.* "A perfect primer for beginning ornithologists."—*San Francisco Chronicle.* "Beautiful manual. . . . Reliable guide to 122 species of Western birds."—*Sierra Educational News.* "For any earnest naturalist as important a help as his field glasses."—*Oakland Tribune.* $4.50

Order from your bookstore, please

Stanford Books & Authors

(*Continued from page 27*) . defense contractors, but humanists and social scientists will also be interested in the impact defense spending has on society as a whole. The authors, both of whom teach business administration at the University of Washington, point out that the Defense Department, in dollar value, buys as much in a month as U.S. Steel produces in a year. The book is about the inter-relationship of the armed services and private industry in expediting weapon system programs, including all the related equipment, supporting facilities, and trained personnel necessary to make the weapon operative.

The Wake of the Gods by H. Bruce Franklin (Stanford University Press) is a serious study of Herman Melville's mythology by an assistant professor of English at Stanford. By coincidence having just re-read Melville's *Typee* and *Moby Dick*, this reviewer found Professor Franklin's intuitions highly interesting if not always compelling. The early pages deal with matters so obvious that some readers may at first feel the author doesn't see any more deeply than they themselves have already seen, but the further he goes the more abstruse and controversial he gets. One suspects that not all Melville scholars will agree with some of his deductions (the trouble with this kind of deep probing into an author's motivation is the danger of discovering something that isn't really there), which necessarily rest on personal interpretation. But this is a conscientious effort to obtain greater understanding of one of the most influential figures in American letters, and Melville buffs will appreciate it.

The Dutch Under German Occupation 1940–45 by Werner Warmbrunn (Stanford University Press) stems from the PhD dissertation of Stanford's foreign student adviser, who lived in Holland before World War II and for the first nine months of occupation. German oppression, and Dutch resistance, began in a slow tempo which gradually accelerated, because the Germans admired the "purity" of the Dutch racial stock and seriously hoped to win esteem. Nazism made some converts, especially in the beginning, but never got any real foothold. Warmbrunn's presentation is solidly based on experience, interviews, and documents.

Beyond Conflict by Robert Lawrence Balzer, '35 (Bobbs-Merrill) is an account of the author's experiences in becoming a Buddhist monk. Alan W. Watts, an authority on Zen Buddhism, calls Balzer "a marvelous coincidence of opposites"—businessman, scholar, artist, gourmet, foreign correspondent, and sincere practitioner of the Buddhist way. Balzer has built a retreat in the San Jacinto Mountains, and his book might be considered Everyman's Guide to Zen.

Religion With Revelation by Charles J. Tilley, Gr. '45 (Christopher Publishing House) seeks to describe the widely diversified beliefs of the world's greatest theological thinkers. However, as a Methodist minister in Virginia Mr. Tilley cannot be presumed to be disinterested. In fact, he hopes the book "will be a source of strength to keep awakened Christianity alive." His discussion is highly technical and difficult to follow because of his choppy writing style, but he makes a diligent attempt to explain different views on revelation.

Moscow and Chinese Communists by Robert C. North (Stanford University Press) is a second edition, somewhat revised and updated, of a book many consider the most instructive ever written about the history and present condition of Sino-Soviet relations. North is a professor of political science and director of Stanford's CONFLICT Project.

Stock Market Primer by Claude N. Rosenberg Jr., '50 (Prentice-Hall) is just what its name implies—a guide for inexperienced investors—by the partner in charge of research for J. Barth & Co., San Francisco. As such it can be useful, but readers should remember that books of this type are valuable for their general rather than their specific information. Fortunes change quickly. One stock the author mentions as having skyrocketed from 7 to 97 recently was listed at 28¼.

BRIEFLY NOTED: *An Age of Controversy* (Dodd-Mead) is a paperback edited by Gordon Wright, executive head of the history department, and Arthur Mejia Jr.; top-level historians and essayists offer a kaleidoscopic view of Europe in the first half of the 20th century . . . *Peerless Patriots* (Public Affairs Press) by Rodney G. Minott, assistant professor of history, is the story of "the organized veterans and the spirit of Americanism, 1898 to the present" . . . *The Armenian Revolution Movement* (University of California Press) by Louise Nalbandian, '49, is said to be the first work on development of Armenian political parties through the 19th century; this young Stanford PhD teaches history at Vallejo Junior College and her "Pilgrimage to Etchmiadzin" was described in the *Stanford Review* four years ago . . .

I Write for Freedom (Academy Library Guild) by Thomas M. Storke, '98, is the Pulitzer Prize-winning Santa Barbara newspaper publisher's personal account of his confrontations with right wing elements and his assessment of the current political climate . . . *Managerial Accounting* (South-Western Publishing Co.) is a text by Robert K. Jaedicke, associate professor of accounting (with Carl L. Moore of Lehigh) . . . *Formal Evaluation* (Harper & Row) by Prof. Edward J. Lynch of the School of Earth Sciences discusses techniques and tools used in analyzing underground strata during oil explorations . . . *Chinese Export Porcelain for the American Trade 1785–1835* (University of Delaware Press) is an illustrated study by Jean McClure Mudge, '55 . . .

College Teaching (McGraw-Hill) is the work of James W. Thornton Jr., '30, a Stanford PhD who is now assistant to the president at San Jose State (with James Brown) . . . *California Our Home* (Century Schoolbook Press) by Julia A. Wessenberg, a special student in 1936, has been submitted for state adoption as a fourth grade basic text in geography . . . *Whale by the Tail* by Louise Melville Kable, AM '49, is a teacher's critique of modern American educational practices . . . *They Took John's Torch* (Pacific Publishing Association) by Dr. Maud O'Neil, '24, relates how mission centers were created within the Roman Empire.

—Dan Endsley

Golden Days at Stanford Sierra Camp

Thank you. Reservations are past the all-time high mark. There are a very *few openings left, and there may be a cancellation or two. Address inquiries to Bowman Alumni House.*

WEEKLY SUMMER CAMP RATES

Adults (11 and over)	$65.00°
Children 5 to 10	45.00°
Children under 5	30.00°
Infants (in arms)	10.00

Check if you wish:
☐ Bath
☐ Single beds for adults

Private bathrooms $20 extra per bathroom per week

° Includes meals: sales tax extra

A Man of Vision

(Continued from page 23) need for a new university in California as for an asylum of decayed sea captains in Switzerland." Nevertheless, Governor Stanford pushed on and Leland Stanford Junior University opened Oct. 1, 1891, with more than 400 students enrolled in buildings and which Ex-President White of Cornell pronounced the most beautiful college architecture in America. Mr. and Mrs. Stanford were present at the opening ceremony and the Founder pointed out to the students, "All that we can do for you is to place opportunities within your reach, it rests with you to improve them." President Jordan noted that "Our University has no history to fall back upon, it is *hallowed* by no tradition—it is *hampered* by none, its finger posts all point forward."

President Jordan had chosen a faculty young in years but high in ability. Melville Best Anderson, professor of English, had the largest department and was the most popular. He later became world famous for his translation of *The Divine Comedy* using Dante's meter and rhyme schemes. Charles David Marx, professor of civil engineering, known as "Daddy Marx," was the most beloved. John Casper Branner, an outstanding authority on geology, was to succeed Dr. Jordan as president some 21 years later. More than one-half of the original staff remained to become professors emeriti.

The early "untroubled years" of the new university, as Edith Mirrielees has called them, were soon over. Two years after the opening Senator Stanford died, and Mrs. Stanford took over. Not only was it the year of the panic of 1893, but all income was tied up until the will could be probated. As a final blow, the U.S. Government filed a claim for $15 million against the estate. For a time it was feared that the University might have to close temporarily. Only the valiant determination of Mrs. Stanford prevented it. She turned over her insurance and household money to pay professors' salaries and even tried to sell her jewels. The struggle to finance the University lasted almost four years. When the suit was finally won and the estate settled, Mrs. Stanford confessed, "Only my Father in Heaven knows all I have suffered and endured since my husband was called from my side to keep the doors of the University open." In 1903, at the age of 74, Mrs. Stanford surrendered all her powers and duties to the Board of Trustees. She died two years later in Honolulu en route to Japan. The State Legislature adjourned out of respect to her memory and over 6,000 attended her funeral in Stanford Memorial Church.

If the success of its alumni is a fair criterion to judge the value of a university, Stanford should rate high among the nation's institutions of learning. Some have served both the country and the University; others have achieved fame and fortune in science or industry. A few citations may be permitted. Herbert Hoover, who matriculated in the first class, is renowned for his great service to his country [see title page]. But he also gave generously of his time and fortune to his *alma mater*. When elected a Trustee of the University in 1912, he worked so effectively that in less than a year President Jordan wrote, "It is marvelous how Mr. Hoover is handling the Board. About every reform we have dreamed of has slipped through as if oiled." It was Mr. Hoover who suggested the establishment of the Food Research Institute on the Stanford campus; he conceived the idea of the Hoover Library on War, Revolution, and Peace and collected vast amounts of the material found there. He helped build the student union, was instrumental in establishing the Graduate School of Business, gave his home as a residence for Stanford presidents.

A classmate of Herbert Hoover's and a Stanfordite who was to have a longer and more intimate relationship with the University than any other person living or dead was Ray Lyman Wilbur. As student, as assistant professor of physiology, as University physician, as professor of medicine, as dean of Stanford Medical School, and finally as president of the University for 25 years, Ray Lyman Wilbur stands high on the list of Stanford's illustrious sons. Wilbur could accomplish an incredible amount of work. Registrar Pearce Mitchell declared he could read a letter, listen to a caller, sign a letter, give the caller the right answer all simultaneously. He was Hoover's right-hand man in the Food Administration, and as Secretary of the Interior he was known as the "Executive Buzz Saw." His work in conservation of natural resources and in protection of the Indian was particularly notable. Ex-President Hoover at the time of Wilbur's death declared, "America is a better place for his having lived in it."

The two successors to President Wilbur were also Stanford men who had made good—Dr. Donald B. Tresidder and Dr. J. E. Wallace Sterling. Dr. Tresidder, characterized by President Wilbur as a beloved alumnus, a man with a fine mind, a fine spirit, and an appreciation of the true values of higher education, was chairman of the Board of Trustees when unbeknownst to him they chose him as president. Dr. Sterling obtained his doctorate at Stanford, taught at the California Institute of Technology, and was director of the Huntington Library when called to Stanford as president in 1949.

Another alumnus of the class of 1895, the late George E. Crothers, an eminent San Francisco lawyer and judge, did much to aid Stanford in the early days. He inaugurated and successfully conducted the tax-exemption campaign. He discerned and removed defects in the Grant of Endowment. He was the first Stanford alumnus to serve on the Board of Trustees. The two buildings bearing his name, housing law students and engineers, are later evidences of his generous good will.

In the field of letters we have John Steinbeck, winner of the Nobel Prize in Literature; Wallace and Will Irwin, both writers of note and the latter a famous war correspondent; renowned editor Bruce Bliven; and more recently best-sellers Allen Drury and Eugene Burdick; a large number in politics, including Carl Hayden, the venerable Senator from Arizona, and Mark Hatfield, the young governor of Oregon. The only woman career ambassador in the U.S. Foreign Service is Miss Frances Willis, who received both bachelor's and doctor's degrees from Stanford. Six other Stanfordites have also achieved the status of ambassador, five of whom are career officers: Theodore Achilles, Elbridge Durbrow, John Jernegan, Robert McClintock, James Penfield, and noncareer officer William Blair.

Stanford Industrial Park is peopled with eminent scientists who studied at Stanford — Sigurd Varian, William Hansen, William Shockley, William Hewlett, David Packard, and others. Provost Frederick Terman, world renowned in the field of electronics, delivered the second annual Distinguished Alumnus Lecture in honor of Founders' Day [see page 16]. Since space precludes any further enumeration, may I conclude with the statement of the great philosopher William James, who delivered the Founders' Day address here in 1906: "Stanford's position is one of unprecedented freedom, not trammeled by the service of the State—independent—utopian in the material aspects—she only needs a boldness like that shown by her Founders to become the seat of a glowing intellectual life . . . devoted to truth, radiating influence, setting standards . . . mediating between America and Asia and helping the more intellectual men of both continents to understand each other."

Stanford is still following that road going forward and upward, and its voluntary Alumni Association of more than 24,000 members, in the ratio of members to those eligible, is the largest in the nation. Surely the hopes of the Founders have been fulfilled.

Alumni Newsmakers

"We feel that Northern California—which has gone major league in everything from symphonies to sports—should be able to produce motion pictures as well as Hollywood and New York."

Thus did Lee Mendelson, '54, announce the formation of Lee Mendelson Film Productions, with headquarters in Burlingame. The firm will specialize exclusively in film documentaries.

Mendelson's background prepares him well for this venture. The week his company was formed he received

the Peabody Award for the best locally produced TV shows in the country—for work done while he was with KPIX, San Francisco. He had written and produced several documentaries for the award-winning "San Francisco Pageant" series. He also did a number of civil defense programs and created and produced "Community Forum" for the station.

The new firm has a number of shows in the offing, including "The Golden Spike," the story of the building of the Central Pacific, and "The World in Motion," comprised of some of the first pictures ever made. Willie Mays will star in a documentary on baseball for the company.

A colorful career in the oil industry came to an end in May when Garth L. Young, '21, retired as a vice-president of Signal Oil Co. One of the original founders of the firm (41 years ago), he helped it grow from a natural gasoline plant to international operations as one of the largest independent firms.

Young's globe-trotting has taken him to South America, the Middle East, and Argentina. As chief engineer for the firm, he built the plants on Signal Hill and Huntington Beach. As vice-president in charge of foreign operations he was a central figure in obtaining major concessions.

When Francis Rogallo, '33, tried to market a toy kite he had designed, it just didn't go over well at $1.00 per kite. But the wind tunnel at the NASA operation at Langley Field (where he is a flight engineer) proved a natural place to test the toy, and Rogallo found that "by bending and twisting its flexible lifting surface it could be adapted for guidance and landing of airborne craft."

Today the flex-wing concept used in the kite is being studied for a multitude of uses with space vehicles. Packed in a space about the size of an unopened parachute, it may be able to assist in the re-entry of the Gemini two-man space vehicle, bringing it safely down to earth. Two aviation companies are developing test wings that use the basic Rogallo principle. One is a "'manned flex-wing," a wing that can glide a man down to earth in semiparachute fashion. Potential uses seem limitless.

A singular position for Joyce Crosetti McDermott, '53. She became probably the only woman to head a building maintenance company when she recently was named general manager of Crosetti Bros., Inc., San Francisco (with offices in Portland and Los Angeles). The firm, which was founded in 1912, is the oldest and largest family-owned and -operated building maintenance contractor on the West Coast.

Dr. Catherine J. Robbins, '22, AM '23, PhD '45, president of Pasadena City College since 1959, was honored

recently when the Pasadena Branch of the American Association of University Women presented an international fellowship grant in her name. In announcing the grant, the AAUW group noted that Dr. Robbins typified the group's ideals: to continue intellectual growth, to develop leaders within the community, and to further the advancement of women.

Dr. Robbins, one of the two women presidents of a junior college in the U.S., has been active in a number of professional groups and in her community. She has been a vice-president of the AAUW branch which honored her.

Another college president in the news—Dr. Thomas A. Bartlett, '51, PhD '59, who has just been named president of the American University in Cairo. Former adviser on political and security affairs in the U.S. Permanent Mission to the United Nations, he is a specialist in the Middle East and Africa.

Dr. Bartlett went to Oxford as a Rhodes Scholar after graduating from Stanford, and returned to re-

ceive his doctorate and to serve as a teaching assistant to the chairman of the political science department. He had been an adviser on economic and social affairs in the U.S. Mission to the U.N. before joining the political and security staff.

PROFESSIONAL HONORS in recent weeks for an educator, Edward B. Johns, '32, AM '34, EdD '43, and a geologist, Hollis D. Hedberg, PhD '37.

Dr. Johns, a member of the faculty of the University of California at Los Angeles, has received the Honor Fellow Award for contributions to the profession from the American Association for Health, Physical Education, and Recreation, a department of the National Education Association. Before joining the UCLA faculty as professor of school health education he taught at Stanford and at the University of Oregon.

Dr. Hedberg's award came from the American Association of Petroleum Geologists, and was the group's highest award, the Sidney Powers Memorial Medal. It is presented in recognition of outstanding contributions and achievements in petroleum geology. Dr. Hedberg is vice-president of exploration for Gulf Oil Corp. and a special lecturer in geology at Princeton. He has been very active in professional groups and has pioneered in many fields.

COMMUNITY SERVICE has been rewarded as two alumni were honored in recent weeks. Named "Citizen of the Year" by the Long Beach Exchange Club was Judge Martin De Vries, '23. Recipient of the Santa Ana Junior Chamber of Commerce Distinguished Service Award was Maurice A. Enderle, '51.

A judge in the local municipal court for nearly 30 years, Judge De Vries has devoted much time to organizations working to rehabilitate disabled veterans and others with physical handicaps (he lost a right arm and a right leg in a railroad accident). He also has been active in Rotary and that group's project in developing better relationships with students in foreign countries.

"Al" Enderle received his honor at a gathering which included many city government and civic leaders. He is a citrus rancher.

ALUMNI WHO WERE students during the tenure of David Starr Jordan may well be wondering why they hadn't been "first" with an "Unforgettable Character" item for *Reader's Digest* if they read the one by Frank J. Taylor, '18, in the May issue. In the article, "The Three Lives of David Starr Jordan," Taylor writes from his own and others' personal recollections of the many-sided and indefatigable educator who "left his imprint indelibly on the mind and character of everyone he met."

Taylor, who has long been one of the country's most prolific and respected magazine writers, received a distinguished service award from the Peninsula Alumna Chapter of Theta Sigma Phi, fraternity for women in journalism, in April.

THREE ALUMNI have assumed key new posts in industry. New president of Standard Oil Co. (New Jersey) is Michael L. Haider, '27. Chairman of the board of Northrop Corp. is Thomas V. Jones, '42. Vice-president (planning) of Douglas Aircraft is Frank Gard Jameson, '45.

Haider, who had been an executive vice-president and a member of the board, joined the Standard organization in 1929. He has held a number of key posts within the company, and had been executive vice-president since 1961. He also had been a member of the firm's executive committee.

President and chief executive of Northrop, Jones was named board chairman in April following the death of William C. McDuffie. The 43-year-old executive had been Northrop's president since 1959.

Jameson, a former president of the Navy League of the United States and a former member of the Alumni Executive Board, has long been active in many engineering ventures in southern California. He serves on a number of boards, and as an avocation is an active yachtsman.

IT'S RARELY that one looks at a list of appointments to a civic committee in southern California without seeing the names of several Stanford alumni. (The same statement could be made of the Bay Area and of other areas with heavy alumni concentration.)

One recent example is the new "Committee of 100" formed to help promote the 1958 Olympic Games for Los Angeles. Appointed by Warren M. Dorn of the Board of Supervisors was Otis Chandler, '51, publisher of the *Los Angeles Times* (and former discus champion). Supervisor Ernest E. Debs appointed Bob Reynolds, '36, of football fame (now with KMPC, Los Angeles), and Arthur C. Stewart, '29, senior vice-president of Union Oil Co. These are from among 17 appointments announced in one day, and there may be a number of other alumni in the "100."

Among those recently named as trustees of Boys Republic were Robert M. Allen, Jr., '42, vice-president, corporate planning, for the Times-Mirror Co., and Houston Rehrig, '29. Boys Republic was founded in 1907 to rehabilitate teen-agers with personal problems.

RE-ELECTED to the Modesto City Council in April was William R. Mitchell, '40, LLB '47. He has been practicing law in Stanislaus County since 1947. He has five daughters and a son.

WEST COAST Life Insurance Co. has a new president—Francis V. Keesling, LLB '33. He had been first vice-president and general counsel of the firm since 1947.

Strictly Personal

1897

TITCOMB – Dr. Lillian Ray Titcomb was honored on her 90th birthday by the South Bay Alumnae Chapter of Delta Gamma sorority, Los Angeles County. She is president emeritus of the Nursery School for the Visually Handicapped and continues active as adviser and consultant.

1908

NOTT—Edith Moore Nott and her husband, Lorrin, toured South America in November.

SEVERY—Clarence L. Severy recently moved from Palo Alto to Denver, Colo., where he is near three "wonderful grandchildren."

1909

PHELPS – Clarence L. Phelps is provost, emeritus, of the University of California at Santa Barbara.

1911

MANN—Horace Mann has done some gold mining in Placer County during the past year.

1912

HAMILTON—Robert Cecil Hamilton retired last July after 46 years with Allyn and Bacon, Boston textbook publishers, and recently returned from a cruise of the Mediterranean.

HOOK—Bertha L. Hook is finding time to travel—last year she took a 3½-month world tour, and this summer plans to visit Africa.

1915

CHALFANT—George Chalfant is organizing a Redwood Coast "corral" of the Westerners. (Stanford ranchers, loggers, miners, etc., are eligible.)

GRACELY—Ruth Close Gracely is spending six months in London doing musical research on early harp music.

OSTRANDER – J. Marvin Ostrander is a member of the 29 Palms Artists Guild, a group whose purpose is to encourage artists in their work and to provide a cultural aspect to the community. They sponsor the 29 Palms Art Gallery.

1916

BROWN—Ralph J. Brown and his wife recently visited Russia and most of the Iron Curtain countries—taking a charter flight with the Los Angeles Bar Association.

1918

Stanford Class of 1918

45th Reunion

November 22, 1963

BUFFUM—Harry Buffum, chairman of the board and principal executive officer of Buffums' in Long Beach, has been named to the board of councilors of the Graduate School of Business Administration at the University of Southern California.

1919

WILCOX – Chester Arthur Wilcox recently retired from his post with Pacific Gas and Electric Co. after 37 years of service.

1920

GOLDSMITH – Ruth Elsinger Goldsmith's husband, Nat, died of a heart attack in February.

LINN—Frank C. Linn retired from General Electric Co. last June after 42 years of service. He currently is working at the National Institutes of Health, Bethesda, Md., with a medical doctor doing research work to determine the causes of osteoarthritis.

1922

HUFF—William E. Huff, Engr. '28, will retire in July after 30 years of service with the Los Gatos Joint Union High School District, most recently as coordinator of mathematics instruction. He recently was named "teacher of the year" by Gamma Omega chapter of Phi Delta Kappa, international men's honorary fraternity in education, "for inspirational leadership to the teaching profession as an outstanding classroom teacher."

PHIMISTER B. PROCTOR
Class of 1924

JOHN C. FRANKLIN
Class of 1926

WILLIAM L. SHAW
Class of 1930

1923

DUNCAN—George A. Duncan Sr. and his wife toured Europe following his retirement as vice-principal of Mountain View High School, and visited the Stanford Campus at Tours.

HOSS—Della Taylor Hoss had a number of her etchings of Yosemite on display recently in the new offices of Yosemite Park and Curry Co. in San Francisco.

HULL—Perry M. Hull is editor and publisher of the *Banner-Journal,* Black River Falls, Wisc. He won the Republican nomination for Congress from his district in 1960, but later was defeated by the Democratic incumbent.

1924

PROCTOR—Phimister B. Proctor has been appointed chairman of the supply and maintenance task group of a special quality assurance study launched by the Army Materiel Command, with the aid of the National Security Industrial Association. He is director of product assurance aerospace at Hughes Aircraft Co.

WATERMAN—Joseph C. Waterman retired in January as senior geophysicist in Shell Oil Co.'s exploration department after 37 years with the firm.

1925

ARMBRUSTER – Earl Armbruster recently retired after 35 years with Shell Oil Co.

PIERCE—J. Maria Anderson Pierce is serving as international president of Zonta International (service organization for women executives in business and the professions, with clubs in 20 countries) for the 1962–64 period. She is principal of the George Ellery Hale school in Pasadena and from 1952 to 1954 was international president of Delta Kappa Gamma, honor society for women in education.

TIMBY – Henry E. Timby is an insurance broker with MacPherson and Co., San Francisco.

Marriages

WAGGONER-FERRANDO—Stephen G. Waggoner to Rosemary Ferrando, May 4, 1962, in Las Vegas. The groom is an independent geologist and the bride the widow of Al Ferrando, '26. They live in Wichita Falls, Tex.

1926

FRANKLIN—John Curtis Franklin has been elected to the board of directors of Bell & Howell Co. He is a partner of the investment banking firm of Lazard Frères & Co., New York.

GRAVES—Dr. Albert D. Graves, AM '32, EdD '48, acting president of Los Angeles State College, will retire at the end of the summer. He joined the school's faculty in 1951 as dean of educational services and was named dean of the college the following year. In 1960 he became vice-president for academic affairs, and last July was named acting president.

ROSS—Arthur A. Ross retired in 1960 as a district engineer for the Board of Fire Un-

derwriters of the Pacific and is now living on a farm in Kuna, Idaho.

Marriages

TOY-RAVEN—Clarence J. Toy to Betty Raven, March 15 in Saratoga. They will live in Los Gatos. The groom is owner of Coast Water Softener Co., San Jose.

1927

DAVISON – W. Brewster Davison recently was named a vice-president of the Atlantic Companies (Atlantic Mutual Insurance Co. and Centennial Insurance Co.).

GAW—Harold P. Gaw recently retired after 35 years of service with Armco Steel Corp., because of ill health. He was works metallurgist at the Middleton Works.

REHM—Norman R. Rehm has been appointed head of the metropolitan division of Security First National Bank, Los Angeles.

1929

BIRCH—Harry D. Birch retired in May as patent attorney of Shell Development Co.'s technical staff. He joined the firm in 1930 and has been at the Emeryville Research Center since 1950. At the time of his retirement he was responsible for patent matters in the inorganic chemistry and mechanical engineering fields.

BURNHILL – Clifford Burnhill, LLB '32, Oakland attorney, has been reappointed to a six-year term on the Alameda County Civil Service Commission by the Board of Supervisors.

SIBBETT – Edward H. Sibbett has been elected vice-president and a director of the Percy H. Goodwin Co., San Diego. He joined the firm three years ago.

WOODWARD – Francis Martin Woodward recently was appointed traffic statistics supervisor for the Northern Counties Area of Pacific Telephone and Telegraph Co. His office is in Sacramento, and he lives in Carmichael with his wife and four nieces and nephews

1930

CHRISTENSEN – Kenneth C. Christensen has been named to the board of directors of Pacific Gas and Electric Co., and continues as vice-president, finance, of the firm.

EKLUND—Dr. Raymond J. Eklund is a physician and surgeon for the Parker Ranch on the Island of Hawaii, largest individually owned ranch in the world.

SHAW—William L. Shaw, LLB '33, has been named chairman of the California Civil War Centennial Commission by Governor Brown. A deputy attorney general, he has served for the past year as executive secretary of the same commission.

SPRINGER – Milford Springer has been named vice-president and general counsel of Southern Counties Gas Co., Los Angeles.

1931

DRAKE—Julia Olston Drake has been appointed secretary of the Chinquapin Branch of the Children's Hospital of the East Bay.

SUTPHEN – Joseph W Sutphen has been named manager of materials and standard parts procurement department of Lockheed-Calif. Co. in Burbank.

For

Lake Tahoe Properties

See or write

Donald F. Williams

REALTOR

BA '51, MBA '53

OFFICE AT MOANA BEACH,
1 MILE SOUTH OF HOMEWOOD

Box 14, Tahoe City, California *Phone: 525-7363*

Featuring

MOANA BEACH PROPERTIES

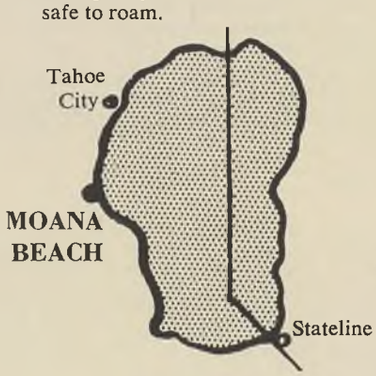
The Finest of Tahoe Carefully Preserved

33 lakefront, lakeview and streamside homesites on sheltered McKinney Bay

ALL SUMMER SECLUSION. Private beach and pier . . . large tree-studded lots all on lakeside of highway where children are safe to roam.

ALL WINTER ACCESS. Year-round county road . . . all year water . . . the West's finest ski areas but 20 minutes away.

CONTROLLED ARCHITECTURAL PLANNING. Your investment is protected by architectural covenants now adopted and available for review.



DESCRIPTIVE BROCHURE SENT ON REQUEST

Donald F. Williams

REALTOR

Specializing in West Shore Properties

Among our new listings . . .

RUBICON BAY HOME. 3 bedroom, 2 bath home on half-acre streamside property. Resawn redwood interior. Native stone fireplace. Private beach and pier. $29,500.

MEEKS BAY LAKEFRONT. 3 bedroom home on lake with separate rental unit. $47,500.

CARNELIAN BAY SHORELINE SITE. Large lakefront lot, 100′ shoreline frontage. Spectacular view. $29,500.

HOMEWOOD. 3 bedroom Bavarian chalet. Easy year-round access. One block from private beach and pier facilities. $22,000.

For information concerning these and other West Shore properties, write Box 14, Tahoe City, California.

ROBERT F. MORRIS
Class of 1936

JOSEPH M. MESSINA
Class of 1942

WILLIAM A. SMITH
Class of 1942

WELLS—John E. Wells has been elected assistant vice-president and manager of the mortgage loan division of Pacific Mutual Life Insurance Co., Los Angeles. He had supervised the company's Midwest mortgage activities since 1952.

1932

HART—James D. Hart, professor of English at the University of California at Berkeley, will be a visiting professor at Harvard University for the 1963–64 academic year.

HATCH—Ernest L. Hatch has retired as secretary and general manager of the Bean Growers Association of California, Sacramento. He will spend more time in the operation of his farming business in Butte County, and will stay on as a member of the state board in an advisory capacity. He is a member of the California Agricultural Export Promotion Committee and a committeeman for the state Food for Peace program.

KENDALL—Nathaniel J. Kendall, Engr. '34, has been elected vice-president and chief engineer of the San Jose Water Works. He has been with the water company since 1947.

RUBENS—William Charles Rubens has been named a member of the Academy of Certified Social Workers.

1933

WATSON—Albert J. Watson Jr. is a founding director and treasurer of the newly-formed Commerce City Bank in the Los Angeles industrial area.

1934

AFFLERBAUGH – Dr. J. Kenneth Afflerbaugh, MD '39, has been elected a director of the Los Angeles County Fair. Additionally he has been elected president of the Tri County Surgical Society (East Los Angeles County, San Bernardino County, and Riverside County), a post earlier held by Dr. James Savage, '35, MD '39.

COFFIN—Wid Lloyd Coffin has spent much of his "spare" time recently in organizing the Stanford Club in Rio de Janeiro. He is with Perma Plasticos, S.A.

FESSIO—Joseph D. Fessio won the National Furniture Warehouseman's Association golf tournament in Palm Springs in March—and the next day made his first hole-in-one at Riviera Golf Course!

POPE—Dr. Glenn A. Pope, Sacramento internist, has been named president of the Sacramento County Medical Society. He has been a member of the board for the past three years and is chairman of the internal medicine section of the California Medical Association.

Marriages

FULLER-OSGOOD—Jane Hewlett Fuller to Edgar Osgood, April 25 in New York City. They will live in San Francisco and Woodside.

1935

DAILY—James Wallace Daily, professor of hydraulics and research at the Massachusetts Institute of Technology, has been named a fellow in the American Society of Mechanical Engineers.

OLIVER—Dr. Bernard M. Oliver, vice-president of research and development at Hewlett-Packard Co., Palo Alto, has been elected to the board of directors of Spectra-Physics, Inc., Mountain View.

PORTER—Noel E. Porter, former mayor of Palo Alto, and a member of the City Council, is serving as head of the League of California Cities.

1936

BIRNBAUM—Myron L. Birnbaum, LLB '39, has been promoted to colonel while serving at Headquarters Sixteenth Air Force at Torrejon Air Base, Spain. His wife, the former Emma Jane Steiner, '40, and three children will return to the United States with him in August when he reports for assignment to the office of the Judge Advocate General of the Air Force, Washington, D.C.

BROWN—David Brown has joined the New American Library of World Literature, Inc., a subsidiary of the Times-Mirror Co., Los Angeles, as an editorial vice-president. He earlier was executive story editor, head of the scenario department, and a producer at 20th Century Fox.

BURKETT—Charles W. Burkett Jr. has been named a general solicitor for Southern Pacific Co. With the railroad since 1944, he had been assistant general counsel since 1960.

EMERSON – Dr. Marion Storey Emerson, MD '40, recently was named clinical senior instructor in preventive medicine and community health at the University of Rochester Medical School, and continues as clinical senior instructor in medicine.

KNAPP—William R. Knapp, LLB '39, plant general manager of the Falstaff Brewing Corp., San Jose, has been elected president of the California Brewers Association.

MORRIS—Robert F. Morris, MBA '38, senior vice-president and treasurer of Don Baxter, Inc., Glendale, has been elected a director of the Financial Executives Institute. He is a former head of the Los Angeles chapter.

OLDING—Robert P. Olding has been elected an assistant vice-president of Johnson & Higgins of Calif. He is in the fire and inland marine department of the insurance brokerage company, and has been associated with the firm for 17 years.

1937

Marriages

TERRIEN-AYRAULT – Frederic William Terrien to Helen Joyce Ayrault, Feb. 23 in San Francisco. They will live in San Francisco.

1938

THE CLASS OF 38 THEY'RE GREAT

25th REUNION

BUSH—Philip D. Bush, manager of nuclear projects for Kaiser Engineers, has been elected president of the Oakland Symphony Association. A resident of Orinda, he is a member of the area's school board.

KENNEDY – Robert Malcolm Kennedy recently was elected president of the Consulting Engineers Association of Calif.

KNOX—Roger I. Knox has joined A & B Commercial Co., Kahului, Hawaii, as sales manager.

McMILLAN—Donald C. McMillan is president of Tamar Electronic Industries, Inc., Anaheim, with four divisions in Southern California and one in Texas.

VAN EVERY—Kermit Van Every, Engr. '39, is with Northrup Aircraft (Norair) as assistant to the vice-president, technology. He earlier spent 23 years with Douglas Aircraft Co., including six months as a consultant to NATO.

1939

BECKETT—John R. Beckett, AM '41, president of the Transamerica Corp., has been named general campaign chairman of the United Bay Area Crusade.

BURNETT—Robert W. Burnett, AM '51, has been appointed chief appraiser of Security Savings and Loan Association. He was Stanford's basketball coach from 1951–54.

ZELLER—Robert G. Zeller has become a general partner in the investment banking firm of F. Eberstadt & Co., New York, having retired from the practice of law and withdrawn as a partner of Cahill, Gordon, Reindel & Ohl.

NES – Elizabeth Houghton Nes and her family are in London where her husband, a Foreign Service Officer, is attending the Imperial Defence College. They earlier were in Rabat, Morocco.

WELLS—Irving Wells has been elected president of the East Portland Rotary Club for 1963–64.

1941

JOHANNESSEN — Edward Johannessen has been appointed assistant manager, labor relations department, Standard Oil Co. of Calif., San Francisco.

MARKS — Assemblyman Milton Marks has been named chairman of the Assembly Committee on Government Organization.

1942

BARLOW—George R. Barlow has joined Gaynor & Ducas, Inc., as copy chief. In the advertising field for a number of years, he most recently had been copy group head at Batten, Barton, Durstine & Osborn, Inc.

BOYLE — Thomas W. Boyle recently was transferred from Modesto to Ventura as manager of a Sears store.

BROWDER—Dr. Robert P. Browder, AM '47, has been acting dean of the graduate school and chairman of the department of history at the University of Colorado for the past year. He joined the school's history faculty in 1951.

MESSINA—Dr. Joseph M. Messina, MD '46, has been elected chief of staff of the Holy Cross Hospital in the San Fernando Valley.

PATTY—Duncan V. Patty, MS '47, has been named vice-president and manager of the oil and gas department of Tejon Ranch Co. He earlier had been assistant vice-president.

SMITH — William A. Smith, LLB '48, has been elected secretary of Lockheed Aircraft International. He joined the firm in 1961 as corporate counsel, and the parent Lockheed Corp. in 1951 as an attorney trainee.

1943

HOWARD — Thomas M. Howard has been appointed assistant manager of the Merrill Lynch, Pierce, Fenner & Smith office at 301 Montgomery St., San Francisco. He has been with the firm for 12 years.

Marriages

LERNER-FIO RITO—Dr. Hillard I. Lerner to Shirley FioRito, Feb. 24.

1944

Marriages

ROBINSON-LARSON—David Keith Robinson to Janet Larson, Aug. 8 in Topeka, Kan.

1945

ARNOLD—Richard K. Arnold has formed a new public relations firm in San Francisco, Arnold & Palmer Associates. He is the author of the 1963 Low Jinks musical comedy production for the Bohemian Club's Grove Encampment.

ELLIOTT — J. Randolph Elliott, LLB '51, former assistant counsel and secretary of Pacific Lighting Gas Supply Co., a subsidiary of Pacific Lighting Corp., has been elected secretary of the parent firm.

MILLS—Maj. Robert C. Mills has been assigned as chief of the communication electronics division at the 456th Strategic Aero Space Wing at Beale Air Force Base, Calif. He and his wife have a son and two daughters.

1946

MURPHY—Walter Lee Murphy, MS '47, has been named general manager of Bethlehem Steel Co.'s South San Francisco plant. He had been assistant general manager for the past five years.

SPAULDING — William E. Spaulding Jr., MBA '52, has been appointed manager of business planning for American Can Co. For eight years he was senior industrial economist and program manager in the long range planning service at Stanford Research Institute.

1947

BOND—Charles A. Bond has been appointed to the faculty of Marygrove College, Detroit, where he will instruct journalism classes for the 1963–64 school year. He will teach at the University of Detroit during the summer. Earlier he was director of public relations and journalism instructor at Sacred Heart College, Cullman, Ala.

1948

ALLEN—John L. Allen is president of a new San Diego insurance agency, Allen, Cloney and Flood. He is a past president of the San Diego Junior Chamber of Commerce and has been in the insurance business in San Diego since 1953.

ENGLISH—William Walter English, MS '50, has been with the Garrett Corp. in Los Angeles since graduation, serving as a preliminary design engineer. He is married to the former Barbara Hull, '50, and they have three children.

IVES—Howard A. Ives, manager in Palo Alto for Mutual of New York, received an award presented to his agency for exceeding its anticipated sales goal in 1962 at a recent meeting in Miami Beach. He participated as a panel speaker at the gathering.

THOMPSON—Morley P. Thompson has been elected a director of the Baldwin Piano Co., Cincinnati.

1949

HITCHCOCK—Robert Dailey Hitchcock received a master of science degree from the State University of Iowa in February.

McCARTHY — Dennis McCarthy, LLB '51, has been named vice-president and general counsel of Tejon Ranch Co. He earlier had been assistant secretary.

1950

CASWELL—Edwin W. Caswell Jr. has been elected president of the Portland Grain Exchange. He is with Continental Grain Co., Portland, and also serves as a director of the National Grain Trade Council and of its executive committee.

DE COU—James H. De Cou, who has been serving as branch public affairs officer for the U.S. Information Service at Luang Prabang, Laos, has received word that his next assignment will be as public affairs officer in Fort-de-France, Martinique. He will assume the new post at the end of the summer following home leave.

KELTON—Richard Kelton, secretary of the Beverly Hills Junior Bar Association, has been serving as chairman of the African Law Student Scholarship Program, inaugurated by the Association recently.

OWENSBY—Phoebe Singley Owensby and her husband, Archie, are moving to their farm at Meade, Kan., after three years at the Kansas State University school of agriculture.

SHELTON — Richard F. Shelton has been named resident manager of the San Francisco office of Paine, Webber, Jackson & Curtis, stock brokers. He earlier was with the San Francisco office of Merrill Lynch, Pierce, Fenner & Smith.

WEBSTER — Edward Arthur Webster has been named manager of the research and development laboratories at the Douglas Space Systems Center, Huntington Beach.

1951

BATESON—Cornelius C. Bateson is serving his second term as a member of the Oregon House of Representatives where he is a member of the Taxation Committee.

BETTMAN—Ralph B. Bettman Jr. has joined Thomas H. Miner & Associates, Inc., Chicago, as a partner and vice-president in the international business consulting firm. He formerly was a senior associate with the management consulting firm of Cresap, McCormick & Paget.

CALDWELL — Maj. William L. Caldwell, MD '55, currently chief of radiology, Rodriguez U.S. Army Hospital, San Juan, Puerto Rico, has been granted a National Cancer Institute fellowship for advanced study in cancer therapy and cancer research at the Royal Marsden Hospital and the Institute of Cancer Research, London. He will be accompanied by his wife, the former Theron Brown, '53, and four children.

WALTER LEE MURPHY
Class of 1946

WILLIAM E. SPAULDING JR.
Class of 1946

RALPH B. BETTMAN JR.
Class of 1951

NICHOLS—Alan H. Nichols, LLB '55, has been named to the San Francisco Library Commission.

SHEPARD — Roger N. Shepard has been named head of the learning processes and measurement department at Bell Telephone Laboratories in Murray Hill, N.J. He has been with the technical staff since 1958.

WHEALEY—Lois Deimel Whealey has been named bulletin editor of the Maine Division of the American Association of University Women. Her husband, Robert, received his PhD from the University of Michigan in February.

Births

WARD—To Mr. and Mrs. John H. Ward, '51 (Alice Johnson, '52), a son, Eric John, Feb. 18. He joins two sisters, Nancy and Jeanne, and a brother, Jeff. The father is a partner in the law firm of Barclay and Ward in Sedro Woolley, Wash.

1952

BINGHAM — George Bingham is serving as president of the Northern California chapter of the Society of Chartered Property and Casualty Underwriters. He is a member of the San Francisco firm of Erlanger, Reed, Dinner & Meyer.

KING—Thomas O. King has become a member of a new architectural firm in Pleasant Hill, Contra Costa County. The firm name is Cowell & King, Architects. Earlier he practiced in Reno.

KUBBY—Lee J. Kubby, LLB '54, and Keith F. Pritchard, LLB '55, have formed a partnership for the general practice of law in Sunnyvale. Pritchard earlier was with Lockheed.

LESTER—Marilyn Jane Roth Lester has been admitted to provisional membership in the Junior League of Pasadena.

McDONALD — John W. (Jack) McDonald has been named assistant commissioner of the California Economic Development Agency in Sacramento. He had been a reporter for the *San Francisco Examiner* for six years and earlier was with United Press in Sacramento and San Francisco.

PARKER—Maj. Richard F. Parker has been assigned to the Military Assistance Advisory Group in Vietnam.

ROWTON—Lawrence R. Rowton, MS '53, has been promoted from senior power industrial engineer in Oakland to Diablo District (Concord) commercial manager by Pacific Gas and Electric Co.

SCHAUMER — Donald L. Schaumer has joined Mason Brothers, San Francisco investment brokers, as a registered representative.

WILSON — David J. Wilson has been promoted to associate professor of chemistry at the University of Rochester.

Marriages

MOSHER-BAUERLEIN—Lawrence Mosher to Constance Bauerlein, March 2 in La Jolla. They will live in La Jolla.

VAN SANT-FRANKS—Merritt E. Van Sant Jr. to Joan Hays Franks, April 10. The groom, a Los Angeles insurance broker, recently was elected a director and secretary of the University Club of Los Angeles. They will live in Santa Monica.

WILLIAM A. EVELAND
Class of 1953

DIXON ARNETT
Class of 1960

ROGER N. SHEPARD
Class of 1951

Births

INMAN—To Mr. and Mrs. Robert A. Inman, '52 (Joan Marshall, '53), a son, Michael Verne, March 3 in Denver, Colo. He joins a brother, Jeffrey, 2.

JOHNSTONE—To Mr. and Mrs. George H. Johnstone (Mary Burden, '52), a son, Edward Andrew, March 5 in Amarillo, Tex. He joins Matt, 6½, Peter, 3, and Tim, 1.

McKIBBEN — To Mr. and Mrs. Gordon C. McKibben, '52, a son, Thomas Gordon, Nov. 2. He joins a brother, William Ernest, 2. The father is an assistant editor of *Business Week* magazine in Los Angeles.

1953

EVELAND — William A. Eveland recently was promoted to major in the Air Force. He is assigned to the 3974th Combat Support Group at Zaragoza Air Base, Spain.

STREET—Charles E. Street is director of Associated Physical Therapists, who recently received the appointment to operate the physical therapy department and services for the new Los Gatos Community Hospital. Associated Physical Therapists is a group of registered physical therapists in private practice who operate four private centers under referral prescription of licensed physicians.

Births

CHIAPPE—To Mr. and Mrs. Wayne Chiappe, (Joanne Ball, '53), a son, David Thomas, Dec. 17 in La Grange, Ill. He joins two sisters, Carole, 3½, and Susan, 1½. The father is manager of a Continental Can Co. plant in Chicago. They live in Western Springs.

KIESLING—To Mr. and Mrs. Roy Kiesling Jr. (Nancy Lou Hunt, '53), a son, Roy III, Sept. 10. He joins Eugenia, 6, Brady, 5, and Stephen, 4.

MEDBURY—To Capt. and Mrs. Paul R. Medbury (Janet Myers, '53), their fourth son, Bruce Sawyer, March 13 in Framingham, Mass. He joins Randall, Douglas, and Scott.

SNAVELY—To Mr. and Mrs. James B. Snavely (Barbara Brooke, '53), a daughter, Valerie Christine, March 28. She joins Pamela Elizabeth, 9, Victoria Suzanne, 6, and James Brooke, 1½.

VERHOYE—To Mr. and Mrs. Karl Edward Verhoye, '53, a daughter, Carolyn Diane, Nov. 25. She joins a brother, Bryan Russell, 2. The father has been promoted to assistant cashier at First National Bank of San Diego.

1954

ACTON — Wade N. Acton has been transferred to the public relations department of the Standard Oil Co. of Calif., having earlier served in the credit department.

COOLEY — Dr. Arthur L. Cooley is in the private practice of obstetrics and gynecology in Saratoga.

SERAFIN—Elliott Serafin is a personnel manager in the Grand Rapids division of the Kroger Co. His wife is the former Cornelia Pierce, '55.

Marriages

PITTS-WELLS—Joyce Brizard Pitts to Harold F. Wells, March 16 in Larkspur, Calif. They will live in Larkspur.

Births

HOLZHEIMER — To Mr. and Mrs. Arthur Holzheimer, '54, a daughter, Laura, April 4.

SUFFIN—To Mr. and Mrs. Stephen H. Suffin, '54, LLB '56, a daughter, Deena Sharon. She joins a sister, Rochelle Karen, 4. The father is a partner in the Beverly Hills law firm of Shaw and Miller.

1955

CARPENTER—Shirley F. Carpenter is working at the Army's 21st Evacuation Hospital in Augsburg, and plans to stay in Europe for at least two years.

GLENN—Douglas E. Glenn, a certified public accountant, has become a partner in the firm of Pearce & Glenn, Winnemucca, Nev.

WEDGE — Winfred E. (Win) Wedge has been named executive vice-president of Costa Pacifica, Inc., Corona del Mar building and land development firm. He earlier was with Union Bank.

Marriages

CRAIG-HINMAN — Homer Theodore Craig III to Mary Hyland Hinman, April 20 in Ross.

DADMUN-KARR—Dr. Stewart Erving Dadmun, MD '58, to Konnie Barbara Karr, recently in the Stanford Memorial Church. They will live in Oakland where the groom is on active duty at Oak Knoll Naval Hospital.

Births

ANDREWS — To Mr. and Mrs. Richard J. Andrews, '55, MBA '57 (Ellie Kronfeld, '57), a daughter, Martha Lee, April 13 in Pasadena. She joins Linda Kay, 3. The father is as-

sistant vice-president of Security First National Bank of Los Angeles.

KEENE—To Dr. and Mrs. Foster Keene, '55, MD '59 (Sue Thorson, '59), a daughter, Paige Elise, Nov. 6 in Portland, Ore. She joins Christopher, 2½. The father is a resident in internal medicine at the University of Oregon and will be a fellow in the cardiopulmonary laboratories next year.

LAYE — To Lt. and Mrs. John E. Laye (Jeanne Curry, '55), a son, John Russell, Jan. 24 in New Iberia, La. He joins Linda, 2. The father is at Quonset Point, R.I., with the Navy.

MOORE—To Mr. and Mrs. Brian Moore, '55, MBA '59 (Sue Meindl, '57), a daughter, Erika, Dec. 13 in Canoga Park. She joins Blake, 5, and McKay, 3. The father is with Consolidated Electro-Dynamics Corp.

SCHULMAN — To Mr. and Mrs. Marshall Schulman (Maxine Rosenberg, '55), a daughter, Julia Ellen, Jan. 25. She joins a brother, Douglas, 4.

TOMSIC—To Mr. and Mrs. Ron Tomsic, '55 (Jacqueline Markus, '56), a son, Todd William, Nov. 15. He joins Mark, 5, and Jill, 3. The father is a partner in Grubb & Tomsic Insurance Co., Oakland.

1956

FREUND—Ronald S. Freund has joined the executive department of the J. C. Penney Co. in New York after serving for two years as New York representative of Stanford Research Institute.

KENDIG—Laurie Hale Kendig and her two children, Colleen, 3, and Billy, 2, were evacuated from Guantanamo Bay, Cuba, in October, but are now reunited with husband and father Capt. William F. Kendig, for the remainder of his tour of duty.

PIGOTT—Charles M. Pigott, executive vice-president of Pacific Car and Foundry Co., Seattle, has been appointed chief of the South County (King County) division of the United Good Neighbor campaign.

PINGREE—Dr. James H. Pingree, MD '59, has completed his internship and residency and currently is a missionary for the Church of Jesus Christ of Latter-Day Saints in Scotland. He is serving as first counsellor to the session president, former Palo Alto Mayor David B. Haight.

WILSON—Capt. George R. Wilson is studying mechanical engineering at the University of Missouri under the sponsorship of the Air Force Institute of Technology.

WOODHEAD — Capt. James J. Woodhead, who is stationed at Travis Air Force Base, recently participated in exercise "Long Thrust

SUMMER CAMP FOR BOYS

BOB MATHIAS SIERRA BOYS CAMP

★ The most modern camp in California
★ Special feature—sports and physical fitness
★ Exciting camping experiences for boys, 9 to 15 years of age
★ Horses, lake, out-camping and crafts

For free brochure write:
Bob Mathias, '53 — 5465 E. Grant
Fresno, Calif. — Phone: 255-5761

SCHOOL DIRECTORY

SCHOOLS FOR BOYS

MENLO School & College

TWO MILES NORTH OF STANFORD
WILLIAM E. KRATT, President — Member of California Association of Independent Schools

SCHOOL
College preparatory for grades 7 through 12. Day and boarding department for all boys.

COLLEGE DIVISION
Freshman and sophomore college years, in preparation for upper division college and university work.

SCHOOL OF BUSINESS ADMINISTRATION
Four year college, offering courses which lead to the degree of Bachelor of Science in Business Administration.

College Summer Session

FOR CATALOGUE AND FULL INFORMATION, WRITE OR PHONE:
Director of Admissions, Menlo School & College, Menlo Park, Calif.

The Robert Louis Stevenson School

"On the Seventeen Mile Drive"
PEBBLE BEACH, CALIFORNIA
College Preparatory
Grades 7–12
ROBERT U. RICKLEFS, '31, Headmaster
Box 110 — Pebble Beach, California

SCHOOLS FOR GIRLS

THE BISHOP'S SCHOOL

LA JOLLA, CALIFORNIA

An Episcopal school for girls. College preparatory. Grade 7, day only . . . grades 8 through 12, resident and day. Send for illustrated catalog.

CASTILLEJA SCHOOL

Founded by Mary Lockey, '02, in 1907
A Day and Resident School for Girls
GRADES 7–12
Accredited to Both Eastern & Western Universities
Member of California Association of Independent Secondary Schools
Margarita Espinosa, A.B., M.A., Stanford, Principal
PALO ALTO — CALIFORNIA

CRYSTAL SPRINGS SCHOOL

A Day School for Girls. Grades 7 through 12. College Preparatory courses only. Advanced Placement Programs for superior students. Junior Scholastic Aptitude Test required for Admission.
Adele Strogen, B.S. Boston University, M.A. Columbia University, Graduate Study Stanford University, Assistant Dean of Women Stanford (1947–57) Headmistress
281 Sierra Drive — Phone DI 2-4175
HILLSBOROUGH, CALIFORNIA

THE ANNIE WRIGHT SEMINARY

Tacoma 3, Washington
80th Year
of
Christian Education
Girl's College Preparatory
Boarding and Day School
George Warner Taylor, Headmaster

San Rafael MILITARY ACADEMY

Founded 1890
Thirty minutes from San Francisco in beautiful Marin County
College Preparatory — Church Affiliated
Fully Accredited
An Episcopal boarding and day school for boys of all faiths. Grades 7–12. Small classes. Exceptional science facilities. Olympic length, heated swimming pool. Individual and team sports. Ski trips.
Non-military summer sessions: Grades 5–12
For information write The Rev. Sumner Walters
B.A., M.A. (Stanford '49); Ph.D. (Oxon.)
or: Mr. A. C. Agnew, Jr. (Stanford '40)
Business Administrator

COEDUCATIONAL SCHOOLS

The Orme School

ON THE QUARTER CIRCLE V BAR RANCH
(Coeducational—Grades 7 through 12)
An accredited college preparatory school in a ranch setting. Accelerated and advanced placement programs. Graduates successful in leading colleges and universities. The school-ranch combination develops well balanced individuals with an appreciation of important basic values including the acceptance of and understanding of individual and community responsibility, the dignity of work, consideration for others, learning self-discipline and a consciousness of natural wonders and beauties. Outdoor program centers on interscholastic team sports competition and horsemanship.

SUMMER CAMP
Eight weeks featuring extensive horseback experience for each camper. Large swimming pool. Tennis. All crafts and sports. Camper Rodeo and Gymkhana. Motor Caravan through scenic southwest. Complete tutoring and academic program conducted by Orme School faculty.

MAYER, ARIZONA
MINNA VRANG ORME '16 — CHARLES H. ORME, '16
CHARLES H. ORME, JR. '41, *Headmaster* — ALLAN D. HILTON '54, *Admissions*

WILKINS PRIVATE HIGH SCHOOL

Accredited
Preparatory to California, Stanford, and all Colleges using the accredited system.
Preparation for college board exams, West Point, Annapolis—Coeducational Summer School Classes.
RUTH WILKINS RAYMOND, Principal
FIllmore 6-5906
3636 Washington Street — San Francisco

VII," involving the speedy movement of a 1500-man Army battle group to Europe and the return of a similar unit to the U.S. He is a Military Air Transport Service pilot.

Marriages

RENWICK-RAINEY — Edward S. Renwick to Gloria A. Rainey, Oct. 20 in Los Angeles. They will live in Pasadena.

THAYER-MAGNUSON — Donovan Shewmake Thayer to Margaret Leuenberger Magnuson, '58, recently in Arlington, Va. They will live in Arlington.

Births

CLARK—To Mr. and Mrs. Donald P. Clark, '56 (Sally Ball, '58), a daughter, Catherine Mary, March 24 in Arcadia. The father is an attorney with the firm of Stephens, Jones, LaFever & Smith.

HODGE—To Mr. and Mrs. Robert Anthony Hodge, '56, a daughter, Jane Hope, March 21. She joins a brother, Dick, 3. The father is with Kaiser Aluminum International in Oakland.

JACKSON—To Mr. and Mrs. William B. Jackson, '56 (Noelle Schmutz, '57), a daughter, Lisa Lynette, April 1 in Pasadena. She joins Patricia, 3. The father is with Security First National Bank of Los Angeles.

PACKARD—To Mr. and Mrs. John T. Packard, '56, MBA '61 (Barbara Bentley, '54, MS '55), a daughter, Leslie, Nov. 12 in Mountain View. She joins Dana Lynn, 5, Robert, 4, and Becky, 2. The father is with the investment counsel firm of Willis & Christy, Inc., in San Francisco.

WRIGHT — To Mr. and Mrs. Lawrence A. Wright, '56 (Judith Kinsell, '60), a daughter, Dana Lynd, March 15 in Palo Alto.

1957

McMILLEN—Mont McMillen Jr. has joined Capital Co., land and oil development subsidiary of Transamerica Corp. in its Los Angeles office. He earlier had been with Bethlehem Steel in Los Angeles.

Marriages

BROWN-LOCKE — Walter Brown to Dena Locke, Feb. 1 in Seattle, Wash.

PERRY-HUTCHINSON — Joanne Cuddihy Perry to Joseph Robert Hutchinson, March 9 in La Jolla. They will live in San Mateo.

Births

BAGEMAN—To Mr. and Mrs. James Bageman, '57 (Karen Wyman, '57), a daughter, Janet Cameron, Dec. 10 in Pasadena. The father is president of Bada Manufacturing Co.

BIGGAR—To Mr. and Mrs. Boyd Biggar, '57 (Barbara Duhrkoop, '58), a daughter, Susan Bee, Jan. 15 in Pasadena. The father is with the J. H. Biggar Co.

BRAMKAMP — To Mr. and Mrs. Lynn A. Bramkamp Jr., '57, AM '60 (Julie Olson, '57), a son, Paul Williams, Dec. 11 in Nevada City. He joins Cathy, 2½. The father is head of the social studies department at Nevada Union High School.

HERING—To Mr. and Mrs. Donald F. Hering, '57 (Sue Ross, '56), a son, John Carson, April 10. He joins two brothers, Donald, 4, and Ross, 2. The father is with the investment firm of Black and Co. in Portland, Ore.

MARKS—To Mr. and Mrs. Milton R. Marks (Lynn Lowenson, '57), a son, Michael Philip, Jan. 30 in Westport, Conn. He joins a sister, Lianne, 1½. Maternal grandfather is Leland G. Lowenson, '24.

SZEGHY — To Mr. and Mrs. Hugh Szeghy, '57 (Sharon Baxter, '57), a son, Mark Andrew, Nov. 18 in Whittier. He joins Kimberly Diane, 3. The father is a salesman for General Mills.

1958

ROSE—Lt. Girard F. Rose recently completed the Air Force advanced training course for F-102 Delta Dagger pilots at Perrin Air Force Base, Tex.

Marriages

MAGNUSON, Margaret Leuenberger — See Thayer-Magnuson, Class of 1956.

RUFF-BULLOCK — Lt. Richard Ruff Jr. to Brenda Harriet Bullock, Feb. 9 at Chateauroux Air Base, Chateauroux, France. They are living in France where the groom is stationed with the Air Force.

SYVERSEN-VOSS — Margaret Syversen to Jorgen Voss, Dec. 22 in Berkeley. They are living in Redwood City where the groom is engaged in research at the Ampex Corp. The bride is assistant operating room supervisor at El Camino Hospital, Mountain View.

WILMANS-WATTIS — Stephen Caleb Wilmans III to Carol Ann Wattis, April 20 in San Francisco. They will live in Woodside.

Births

PHINNEY — To Mr. and Mrs. Michael E. Phinney, '58 (Nyna Miilu, '58), a daughter, Jan Merritt, Feb. 8 in Tucson, Ariz. She joins a sister, Lyle, 2. They live in Tucson where the father is area representative for Wilshire Oil Co. of Calif.

1959

BLAZZARD—Lt. Norse N. Blazzard and his wife, the former Mary Beth Jecker, '60, are in Bremerhaven, Germany, where he is stationed at the Port of Embarkation. He graduated from Hastings College of Law last June and plans to enter private practice in San Francisco upon completion of his military service.

CLOUD—Stanley D. Cloud is doing graduate work toward his PhD in physics at the University of Oregon, where he is a NDEA fellow. His wife, the former Barbara Hicks, '60, is news editor of the *Springfield* (Ore.) *News.*

JENKINS—Charles C. Jenkins, MD '62, is an intern at the University of Oregon Medical School hospitals and clinics, Portland.

KARRH — John B. Karrh will enter Purdue University in September to study for his doctorate.

KIERULFF—Herbert Kierulff, a student at the University of Southern California Graduate School of Business, has been selected to participate in "Journey for Perspective," a summer European travel-study program underwritten by the John Hancock Mutual Life Insurance Co.

LEONG—Harriette K. H. Leong is a chemical abstractor in the technical information services department of Shell Development Co.'s Emeryville Research Center.

ROEMER—Michael Roemer and his wife, the former Linda Cohen, '60, are in Kenya where he is assistant secretary in the development division of the Treasury in Nairobi as a Massachusetts Institute of Technology "Fellow in Africa."

ROGERS—Conway R. Rogers, LLB '62, recently completed the officer orientation course at the Infantry School, Fort Benning, Ga.

TRAVERS—Robert B. Travers recently became affiliated with J. S. Strauss & Co., San Francisco investment brokers as an investment securities analyst.

Marriages

CRAVENS-GOOD—Susan Dawson Cravens to Glenn Thomas Good, March 30 in Palm Desert.

GREGSON-BROWN—Patricia Cluff Gregson to Earl Raymond Brown Jr., recently in Westwood.

JANZEN, Helen Margaret — See Lauritzen-Janzen, Engineering.

MONTGOMERY-WATANABE — Maurice Richard Montgomery Jr. and Florence Watanabe, both Class of 1959, were married Feb. 16 in San Jose. They will live in Eugene, Ore., where the groom is working for his doctorate at the University of Oregon.

Births

AUSTIN—To Lt. and Mrs. Roger J. Austin, '59 (Loree Dahling, '59), twin daughters, Tirra and Wendy, Jan. 11. They live at Wright-Patterson Air Force Base, Ohio.

STRATHEARN—To Mr. and Mrs. Bruce M. Strathearn (Sue Anne Sewell, '59), a daugh-

DUARTE A. LOPES
Class of 1962

DANIEL G. FARTHING
Class of 1962

JUDY ANN LEY
Class of 1961

ter, Kimberly Anne, Sept. 27 in Ventura. The father owns and operates the Los Alamos Sportsmen's Club, a private shooting preserve in Simi, Calif.

1960

ARNETT—Dixon Arnett is serving as executive director of the San Francisco Bay Area Republican Alliance.

EGEDE-NISSEN—Lt. Dag Egede-Nissen is in Alaska as executive officer of the 37th Artillery's Battery A at Fort Richardson.

FONG—David Fong is an instructor in English at Colby College, Maine.

IRISH—Leon E. Irish, who is attending the University of Michigan Law School, has been named associate editor of the *Michigan Law Review* for the year 1963–64.

MATHER—John C. Mather will graduate in June from Princeton Theological Seminary to become a Presbyterian minister.

PHILLIPS—Lt. William W. Phillips received the silver commander's trophy as honor graduate of his Air Force navigator training class at James Connally Air Force Base, Tex. He has been assigned to Mather Air Force Base, Calif., for advanced training.

Marriages

CAMPBELL-ADAMS—Leon George Campbell Jr. to Abigail Blake Adams, recently in Piedmont. They will live in San Francisco.

FORD-McMULLIN — Carol Ann Ford to Raymond Daryl McMullin II, recently in Hollywood.

KROEGER-PASCOLINI — Linda Rae Kroeger to Aldo Pascolini, April 22 in Rome, Italy. The bride studied last year in Rome at Societa Dante Alighieri and worked as a governess for the son of Gina Lollobrigida. The groom is a designer in archaeology for the Italian government.

Births

VON BRIESEN—To Mr. and Mrs. Hans von Briesen, '60 (Frances Huneke, '60), a son, Cailen, Jan. 29 in Rochester, N.Y. He joins Margaret, 1½. The father is in his second year of graduate work in physcis at the University of Rochester where he is a teaching assistant.

1961

BOOTHE—Lt. Barry P. Boothe recently completed the officer orientation course at the Infantry School, Fort Benning, Ga.

HALEY—Lt. Percy Edward Haley recently completed the officer orientation course at the Infantry School, Fort Benning, Ga.

LEY—Judy Ann Ley will receive her MBA from Harvard in June, having entered the Business School after a year in the Harvard-Radcliffe Program in Business Administration.

MARKHAM—James Markham has received a Fulbright grant to study marine botany at the University of Oslo, Norway. He has been doing graduate work in botany at the University of Washington.

ROMER—Richard A. Romer was honored as a distinguished graduate when he received his commission as a second lieutenant in the Air Force at Lackland Air Force Base. He has been assigned to Chanute Air Force Base to attend an aircraft maintenance officer course.

Marriages

BURKE-GIBBS—John Miles Burke to Barbara Dinsmore Gibbs, Feb. 23 in Woodside. They will live in Westwood where the groom is doing graduate work at UCLA.

HAWKINS-GETCHELL—Richard K. Hawkins and Diana Ruth Getchell, both Class of 1961, were married recently in Dar es Salaam, Tanganyika. They are living in Tanganyika, where the groom is teaching under the Teachers in East Africa program.

LYNCH-POLLOCK—John Hampton Lynch to Gay Ord Pollock, Dec. 22 in San Francisco. They will live in New York. The groom is with the international division of the First National City Bank of New York.

NORTON-HINZ—Lt. Richard Decker Norton to Joy Frances Hinz, recently in Claremont, Calif. They will live at Reese Air Force Base, Tex., where the groom is stationed.

PEWTERS-MICKLITSCH — Mary Joanne Pewters to Max S. Micklitsch. They will live in Manhattan Beach, Calif.

SIMILA-HILLMAN — Alan William Simila to Karen DeeAnn Hillman, recently in Mountain View. They will live in Palo Alto.

1962

ASH—Lt. Thomas G. Ash has been assigned to Mount Lemmon Air Force Station, Ariz., following graduation from the weapons controller course at Tyndall Air Force Base, Fla.

BARRY—Robert Barry Jr. has joined Philco Corp., Palo Alto, as a field engineer.

KENDALL—Burton Kendall is studying for his PhD at Brown University.

FARTHING—Daniel G. Farthing has been commissioned a second lieutenant in the Air Force and is assigned to Bunker Hill Air Force Base, Ind., as a personnel officer.

LOPES—Duarte A. Lopes has been commissioned a second lieutenant in the Air Force and has been assigned to Holloman Air Force Base, N.M., as an electronics engineer at the Air Force Missile Development Center.

SANDLIN—Stephen H. Sandlin received his commission as a second lieutenant in the Air Force at Lackland Air Force Base, Tex., and has been assigned to Sheppard Air Force Base for intelligence officer training.

Marriages

CRAIG-YEOMANS—Gary H. Craig and Linda D. Yeomans, both Class of 1962, were married recently. They will live in Alhambra.

ELLIOTT-PAGE—Dennis McCoy Elliott to Kathleen Murdock Page, '63, March 23 in San Francisco. They will live in Woodside.

FARTHING-ISAACS — Lt. Daniel Greer Farthing and Jane Manwaring Isaacs, both Class of 1962, were married recently in Los Angeles. They will live in Indiana while the groom is stationed at Bunker Hill Air Force Base.

HOFFMAN-WRIGHT — Kris Hoffman to Nancy Darling Wright, recently in the Stanford Memorial Church. They will live in Palo Alto while the groom continues graduate studies at Stanford.

HOLLYWOOD-ANDERSON—Leigh Peirson Hollywood and Kristin Anderson, both Class

REALTORS

HOMES & INVESTMENTS
INSURANCE
MORTGAGE LOANS
PROPERTY MANAGEMENT

9 Stanford grads associated with

HARE, BREWER & KELLEY, INC.

Since 1925

DA 3-5155 ■ 525 University Ave., Palo Alto

Readak, Inc.

SUMMER READING COURSES

SUMMER SESSIONS, for the elementary, advanced and superior reader of any age.

Courses stress phonics, grammar, composition, spelling, comprehension and speed.

Classes begin on June 17th, July 15th, and August 12th.

For further information call your nearby Readak school in San Jose, Palo Alto, San Francisco, or Santa Barbara. KIRK LAWSON, '53, President.

Personalized Travel Counseling

Leo T. Sides

THE TRAVEL SERVICE, INC.
Shopping Center at Stanford
Palo Alto, California
Davenport 4-1691

We Show You How To Go

HIE AWAY RANCH

High among the redwoods
and sunny mountain meadows

CALIFORNIA'S NEWEST RANCH-RESORT CLUB

Week and weekend leisure living for all the family
Franklin and Virginia Wood
504 Comstock Lane, Santa Cruz, Calif. 423-5553

HAROLD FURST
Business

ARTHUR GOLDSMITH
Business

JAMES R. GREENE
Business

of 1962, were married recently in Santa Ana. They will live in Montrose, Calif. The groom is with Jet Propulsion Laboratory in Pasadena.

MACKENZIE-SEVERANCE—Roger Duncan Mackenzie to Nicola Louisa Severance, Feb. 2 in the Stanford Memorial Church. They will live in Brussels, where the groom is working in the offices of the Common Market. He plans to enter law school in the fall.

MALOTT-BIAGGINI—Ensign James Spencer Malott and Constance Sue Biaggini, both Class of 1962, were married recently in Hillsborough. They will live at Norfolk, Va., where the groom is stationed.

MULLEN, Marie Madere—See Olivar-Mullen, Law.

NIES, Kathleen Lucy—See Williams-Nies, Class of 1963.

RODGERS-JAFFE—Elizabeth (Betsey) Rodgers to Myron T. Jaffe, April 15 in New York City. They will live in Spain.

SPENCE-COTTON — Robert Leroy Spence to Kristi Borel Cotton, '63, March 1 in San Mateo. They will live in San Diego.

SPENCE-HOBNER—Philip Wardwell Spence to Carole Hobner, recently in Los Altos. They will live in Seattle while the groom continues graduate work at the University of Washington.

1963

Marriages

COTTON, Kristi Borel—See Spence-Cotton, Class of 1962.

CRUSE-WILSON—Thomas Allen Cruse to Katherine Jane Wilson, '64, recently in Carmel. They will live in Palo Alto while both continue their studies at Stanford.

PAGE, Kathleen Murdock—See Elliott-Page, Class of 1962.

SWYTER-LEEDY—Han Winston Swyter to Judith Eileen Leedy, Dec. 28 in Bellingham, Wash. They will live in Palo Alto while the groom continues his education at Stanford.

WILLIAMS-NIES—Hiram Stephen Williams to Kathleen Lucy Nies, '62, Sept. 15. They are living in Palo Alto while they continue their education at Stanford. The bride plans to teach while the groom attends Johns Hopkins University Medical School.

1964

Marriages

WILSON, Katherine Jane – See Cruse-Wilson, Class of 1963.

Business

BECHTEL — Stephen D. Bechtel Jr., MBA '48, has been elected to the board of the M. A. Hanna Co., Cleveland investment firm. He is president of the Bechtel Corp. and a director of Pacific Gas Transmission Co., Tennessee Gas Transmission Co., and the National Industrial Conference Board.

CANTRELL—Joseph E. Cantrell, MBA '57, has been appointed district manager in the Sacramento area for the industrial marketing division of Scott Paper Co.

FURST—Harold Furst, PhD '54, has been named manager of Bank of America's Market-New Montgomery branch, San Francisco. He had been vice-president at the branch for the past two years.

GOLDSMITH—Dr. Arthur Goldsmith, MBA '60, has been appointed senior staff engineer at the Chicago center of Motorola Military Electronics Division.

GREENE—James R. Greene, MBA '48, vice-president in charge of the Latin American division of Manufacturers Hanover Trust Co., has been elected a director of Corporation Financiers Colombiana de Desarrollo Industrial, Bogota. The company was established four years ago to promote, organize, and develop basic Colombian industries.

HUGHES—James T. Hughes, Gr. '55, retired from the Navy Supply Corps two years ago and is with Lockheed in Sunnyvale.

JAMES—Philip J. James, MBA '62, has joined the marketing department of Monsanto Chemical Co.'s agricultural chemicals division at St. Louis.

JONES—Wesley J. A. Jones, MBA '48, has become associated with Academy Life Insurance Co., Colorado Springs, as vice-president, sales.

LONGLEY — Cam Longley, MBA '51, has been working as a senior engineer at Thiokol Chemical Corp., Brigham City, Utah, since retirement from Army. He has two daughters at the University of Oregon.

LOWELL—Richard S. Lowell, MBA '48, is president of the Los Angeles Chapter of the National Cystic Foundation.

RAYNAK—Gene A. Raynak, MBA '62, is a sales assistant in the Howard A. Ives' Agency of Mutual of New York in Palo Alto.

SCHUDT — Col. Charles W. Schudt, MBA '52, has been assigned to the colonels division, office of personnel operations, at the Pentagon. The agency was created in 1962 to provide better personnel management for all Army personnel.

SMITH—Charles Curtis Smith, MBA '48, is director of marketing for International Business Machines World Trade Corp.

SUNDSETH—Jarl Sundseth, MBA '62, is a field service engineer with AC Spark Plug, electronics division of General Motors.

SUTHERLING—Elton W. Sutherling, MBA '53, who was promoted to rear admiral last year, has received orders to command the Naval Supply Center, Bayonne, N.J.

Marriages

ATKISSON-MAUGHAN—Curtis T. Atkisson Jr., MBA '61, to Mary Ann Maughan, Gr. '62–, April 8 in Logan, Utah. They will live in Santa Clara. The groom is with FMC Corp. in San Jose.

OPPERMAN-DAVIES—John C. Opperman, MBA '52, to Millicent (Billie) Wilson Davies, Feb. 22 in Carmel. They will live in San Francisco.

Earth Sciences

BURKE—John Randall Burke, MS '60, has joined the Cerro de Pasco Corp., Peru, as an assistant research metallurgist after completing work for a master of science in metallurgical engineering at the University of Minnesota. He married the former Susan Hoglund last June.

Education

ARNETT—James Edward Arnett, Gr. '59, has been listed in *World's Who Who in Commerce and Industry* and *Who's Who in the Midwest*. He is on the board of directors of the Educator and Executive Co., an insurance firm with three subsidiary insurance companies.

GROSSE—Marion Alfred Grosse, AM '45, retired from the faculty of Fresno State College last June.

HOPPER—Dr. J. Victor Hopper, AM '47, has been named chairman of the department of education at Colorado College. He had been director of the summer school for the past six years.

JOHNSON—Hope Welnak Johnson, AM '52, is president of the California Association of Supervision and Curriculum Development-Southern Section.

RAGAN—William B. Ragan, EdD '37, has had his book, *Modern Elementary Curriculum*, translated into Chinese by the Chinese Nationalists on Formosa.

SEAMANS—Herbert I. Seamans, EdD '47, and his wife recently spent five months touring the Fiji Islands, New Zealand, Australia, American Samoa, and Tahiti. He gave a talk on the cultural and educational situation in the areas visited at the Stanford Conference on Educational Investment in the Pacific Community in March.

SCHNEIDER—Dr. Raymond C. Schneider, EdD '55, a development engineer and human factors analyst at Sylvania Electronic Systems, Mountain View, was in charge of selection of technical papers for the program of the First World Conference on Shell Structures held in San Francisco in October. He was special representative of the building research advisory board on the editorial and publications committee of the conference.

SHEPHERD—Mildred Roof Shepherd, AM '42, has been inducted into the Million Dollar Sales Club of the Northern Virginia Real Estate Board for the year 1962. Her husband, Navy Capt. J. T. Shepherd, is serving as operations officer of Carrier Division One in the Pacific. They plan to reunite the family in San Diego in March. They have two children, Jimmy, 12, and Janet, 11.

SMITH—Dr. Lenore Smith, AM '37, professor of physical education at the University of Southern California, has been named president-elect of the Western Society of Physical Education of College Women.

SUFFIELD—Dr. Charles L. Suffield, EdD '44, will serve as associate dean of Appraisal I for the American Institute of Real Estate Appraisers at Southern Methodist University, Dallas, June 17–29.

Marriages

FLANNERY-BARRETT — Mary Flannery AM '62, to Robert C. Barrett Jr., recently in San Jose. They will live in San Francisco.

MAUGHAN, Mary Ann — See Atkisson-Maughan, Business.

Engineering

BLAYLOCK—Albert J. Blaylock, MS '53, has been elected president of the San Diego Society of Structural Engineers. He heads his own firm in San Diego.

DANTIN—Dr. Elvin J. Dantin, PhD '60, associate professor of civil engineering, has been named director of the Louisiana State University Engineering Experiment Station.

FLETCHER—Col. Henry M. Fletcher Jr., MS '47, has received the Air Force Commendation Medal while serving at headquarters, Space Systems Division, Los Angeles, as director of the Agena missile program.

GREENER—Alan E. Greener, MS '56, is an engineer with Erie Resistor Corp., Erie, Pa.

HENRY—Eugene W. Henry, PhD '61, has been elected chairman of the South Bend section of the Institute of Electrical and Electronics Engineers (IEEE) for 1963. He is assistant professor of electrical engineering at Notre Dame University.

LEE—Colin H. Lee, MS '60, has been promoted from associate analyst to analyst in Continental Oil Co.'s coordinating and planning department.

McEWEN—Cassius Richard McEwen, MS '50, PhD '52, has been promoted to senior section leader at Union Oil Co. of California's Research Center, Brea.

MITRO—Lt. Col. Michael Mitro, MS '58, is area engineer in charge of all military construction for the Army Corps of Engineers at the Arnold Engineering Development Center, Tullahoma, Tenn.

RACHMELER — Louis Rachmeler, MS '53, recently was promoted to lieutenant colonel in the Army. He is an instructor-author at the Command and General Staff College, Fort Leavenworth, Kan.

WADE—Dr. Glen Wade, PhD '54, assistant general manager of Raytheon's research division in Lexington, Mass., has been named a fellow of the Institute of Radio Engineers. The highest membership level offered by the IRE, it is bestowed only by invitation to

BUSINESS AND PROFESSIONAL DIRECTORY

SHEARSON, HAMMILL & CO.

Founded 1902
Members New York Stock Exchange and other leading Stock Exchanges

SANTA BARBARA
1007 Anacapa Street · Woodland 5-8571
FRANCIS B. MANCHESTER '26, *Resident Manager*

Complete Brokerage Facilities • Professional Investment Management Service

"SERGENERAL"

A limited company of
COLOMBIA-SOUTH AMERICA
PROPERTY MANAGEMENT
INTERNATIONAL TRADE COUNSELORS
Commerce and Industry Studies
Tax and Exchange Problems
U.S. residents receive important U.S. tax exemptions on Colombian realty holdings.
Inquiries invited.
Bank References in California, New York, South America

Air Mail Box 1561 — Cali, Colombia
Cables: "Sergeneral — Cali"

FRED W. PEARMAN '34
Partner and Manager

LEVISON BROTHERS

General Insurance Brokers

Providing Our Clients Analytical and Objective Insurance Service

Robert M. Levison, '21
Robert M. Levison, Jr., '48
Douglas M. Heller, '53, M.B.A. '57

233 Sansome St. **San Francisco 4**
GArfield 1-4221

Stanford Review

This directory is for those requiring brief but recurrent mention (nine consecutive issues or more). It is maintained as a service for readers; the cost, $5.00 per column inch per issue, is less than half the regular display advertising rate.

Address inquiries to Advertising Dept., Bowman Alumni House, Stanford, Calif.

SERVICES FOR EVALUATION, DEVELOPMENT, AND UTILIZATION OF NATURAL RESOURCES

Carroll H. Bradberry & Associates
CONSULTING ENGINEERS
LOS ALTOS · CALIFORNIA

Land–Water–Petroleum–Minerals

RAMBLER

Small Car Price—Big Car Ride!

BUICK

8 Out of 10 Families Can Afford One!
Please Contact Us—You Be the Judge

"BONES" HAMILTON CO.
5747 Van Nuys Blvd., Van Nuys, Calif.
785-7423 873-1177

Edwin C. Porter, '43 William F. Hooper, '44

PORTER-HOOPER & CO.

Insurance Brokers and Consultants

204 S. Beverly Drive **Beverly Hills, California**
Crestview 5-4329 **Bradshaw 2-2714**

Parsons Optical LABORATORIES

- dispensing opticians BILL GREEN '47
- contact lenses DAN BROWER X '27
- surgical and diagnostic instruments

SAN FRANCISCO—STANFORD—SAN MATEO

AZEVEDO BROS.
Jewelers to Stanford Men & Women since 1936
DIAMONDS—WATCHES—SILVERWARE
Graduate Gemologist 1958
Stanford Charms & Crests
Suite 321, Shreve Bldg.
210 Post St. San Francisco 8
M. Arthur Azevedo, '34
Certified in Diamond Grading and Evaluation by the Gemological Institute of America

JOHN LEAHY ASSOCIATES

Consultants for Estate, Business and Employee Benefit Plans. Agents for Life and Disability Insurance and Annuities

1730 Kearney Street **San Francisco 11**
YUkon 2-0626

WALTER H. LEVISON, '24

JEWELER–APPRAISER
DIAMOND BROKERS

Estate Jewelry Bought, Sold, and Appraised **210 Post St. San Francisco 8 (DOuglas 2-4752)**

RICHARD L. PARKER, '52

NATURAL GAS CONSULTANT

Vaughn Bldg. **Amarillo, Texas**

MARK TUBAN INC.

Authorized Ford Dealer
YOrkshire 7-6911

S. '55 **111 El Camino Real, Mt. View**

REID'S

TELEVISION—APPLIANCES

Two Locations

Reid's Los Altos TV
1100 El Camino
948-5718

Monta Vista TV
21519 Stevens Cr. Rd.
252-3305

SALES—SERVICE
Joe Reid, '49

those who have made outstanding contributions to electronics, radio, and allied branches of engineering and science.

WING—Wayman C. Wing, MS '48, heads the firm of Wayman C. Wing, Consulting Engineer, New York. The company is structural engineer on the new San Francisco Hilton, the award winning United Church in Rowayton, Conn., and numerous projects for Hilton and Pan American here and abroad.

Marriages

FONTANA-SALOMONSSON — Jorge Fontana, PhD '60, to Anna Salomonsson, recently in Palo Alto. They will live in St. Paul, Minn., where the groom has joined the faculty of the University of Minnesota.

HELGESSON-HUDGINS—Alan Lee Helgesson, MS '57, to Llyssa Vallie Hudgins, recently in Boston.

LAURITZEN-JANZEN—Peter Owen Lauritzen, MS '58, PhD '61, to Helen Margaret Janzen, '59, April 6 in Palo Alto. They will live in Palo Alto where the groom is with Fairchild Semiconductor and the bride teaches music at Terman Junior High.

VLIET-LOVE—Garry Clark Vliet, MS '57, PhD '62, to Donna Mae Love. They will live in Palo Alto where the groom is with Lockheed.

Births

HOWARD—To Mr. and Mrs. Burl W. Howard, Gr. '60, a daughter, Catherine Linden, March 7. She joins two brothers, Mark, 6, and Kirk, 3. The father is an engineer with Bechtel Corp. and they live in Washington, D.C.

LUENBERGER—To Mr. and Mrs. David G. Luenberger, MS '61 (Nancy Iverson, '61), a daughter, Susan Ann, Feb. 9 in Palo Alto. The father continues his graduate work at Stanford.

OLSON—To Mr. and Mrs. Homer J. Olson, MS '49, a son Robert Kevin, July 28.

ROSS—To Mr. and Mrs. John McCandlish Ross, MS '53 (Donnie Measday, '53), a daughter, Pamela Nash, April 24, 1962. She joins Wendy, 4, and Taylor, 3. The father is with Goodyear Aircraft, Phoenix.

Humanities-Sciences

BRADLEY—Edward G. Bradley, AM '52, received his PhD from Ohio State University in March.

CARLSON—Elliot W. Carlson, AM '61, has been awarded a Congressional Fellowship by the American Political Science Association. He is on the editorial page staff of the *Honolulu Advertiser*.

ELDRIDGE—Roger Lee Eldridge, AM '60, has been appointed chaplain of Grinnell College, Iowa, and will also be an instructor in philosophy and religion.

ELKUS—Jonathan B. Elkus, AM '54, associate professor of music and director of the band at Lehigh University, had a song of his presented by countertenor Alexander Terry at Judson Hall, New York, in April. Titled "In the Time of Your Life," it is written to the text of a William Soroyan play. Elkus is a former assistant director of Stanford bands.

FAHSL—Jeannine Fahsl, AM '62, has joined the faculty of Moorhead State College., Minn., as instructor of history.

GLOVER—Dr. Leon C. Glover Jr., PhD '62, has joined the professional staff of Shell Development Co.'s Emeryville Research Center.

KING-FARLOW — John King-Farlow, PhD '60, is assistant professor of philosophy at the University of California at Santa Barbara, where his wife, the former Nancy Holman, '55, is also teaching. He recently addressed the American Philosophical Association at Berkeley and appeared in a symposium of the Southern Association for Philosophy and Psychology at Miami.

LAW—Helen M. Law, AM '58, will spend the summer at the NEDA Foreign Language Institute at the University of Southern California. She has been teaching Spanish in Oroville and has been appointed coordinator of the foreign language department at the high school.

LEIGHTON—Dr. Frederick Leighton Jr., PhD '54, has been promoted to manager, technical service, for Hooker Chemical Corp.'s phosphorus division and will be located at Jeffersonville, Ind.

LOCKEY—Savannah Cross Lockey, Gr. '31, lost her husband in November, when he suffered a heart attack. She is managing his business, Blu-Flame Gas Co., Troup, Tex., and continues as a member of the board of regents of State Teachers Colleges.

MAXWELL—Edward J. Maxwell, AM '62, recently completed a communications center operation course at the Southeastern Signal School, Fort Gordon, Ga.

NODDIN—Ralph E. Noddin, AM '16, has been elected a member of the Sonoma County Board of Education.

James E. Arnett
Education

Louis Rachmeler
Engineering

Dana C. Peterson
Law

O'BRIEN—Kenneth B. O'Brien Jr., AM '51, PhD '56, assistant professor of history at Colgate University, has been appointed executive assistant to the president of the University.

PARKS—Dr. Ronald D. Parks, MS '58, PhD '61, who joined the University of Rochester faculty in January as professor of physics, has been awarded an Alfred P. Sloan Foundation unrestricted basic research grant for the next two years.

RICE—Dr. Randall G. Rice, PhD '44, has become associated with the Armed Services Technical Information Agency, Arlington Hall Station, Va. He is assigned to the directorate of technical information where he will head the material sciences division. He earlier was with Chemical Abstracts Service, Columbus, Ohio.

SEARS—William R. Sears, AM '51, has been appointed director of marketing for Infrared Industries, Santa Barbara. He earlier had been manager of marketing services for Western Development Laboratories of Philco in Palo Alto.

WEISBAND—Edward A. Weisband, AM '62, is studying at the Johns Hopkins School of Advanced International Studies in Washington, D.C., under a Jacob M. Kaplan Fellowship.

Births

GOODWIN—To Dr. and Mrs. W. Richard Goodwin, PhD '55 (Patricia Earnest, AM '55), a daughter, Barbara, March 25. She joins Douglas Richard, 2. Dr. Goodwin is manager of the SACCS Department of the System Development Corp. in Paramus, N.J.

Law

DOTY—John Alden Doty, LLB '62, has become associated with William L. Ferdon and Harold S. Dobbs for the practice of law in San Francisco.

GRESHAM—Allen B. Gresham, LLB '56, is president of the San Bernardino Area Mental Health Association.

LINCOLN—Preston S. Lincoln, JD '11, continues to be active. He was a guest lecturer to ROTC students at Boston University, Harvard, and the Massachusetts Institute of Technology, in February and March—talking on geography, geology, the use of science, and the place of the U.S. Navy in the Civil War.

PETERSON — Dana C. Peterson, LLB '60, former city attorney of Mountain View, has joined Ampex Corp., Redwood City.

SHAW—Lucien W. Shaw, LLB '33, executive vice-president and secretary of Bekins Van Lines Co., has been elected a member of the board of directors of the parent firm, Bekins Van & Storage Co.

Marriages

ANDERSON-GIBSON — Peter MacArthur Anderson, LLB, '62, to Ann Warren Gibson, recently in Berkeley. They will live at Ft. Benning, Ga., where the groom is stationed.

MacFARLANE-GERTMENIAN — John D. MacFarlane and Janet Gertmenian, both LLB '62, were married recently in Pasadena. They will live in Pueblo, Colo.

MOORE-BEACH—Spencer O. Moore Jr., LLB '61, to Mycke Beach, Dec. 29.

OLIVAR-MULLEN—Harry Arthur Olivar, Gr. '60–, to Marie Madere Mullen, '62, Dec. 22 in Dallas, Tex.

In Memoriam

Faculty–Staff

ICHIHASHI—Dr. Yamato Ichihashi, '07, AM '08, professor of Japanese history and government, emeritus, died April 5 at Stanford after an illness of several weeks. He was 84. Dr. Ichihashi began his teaching career at Stanford in 1908 and continued on the faculty until his retirement in 1943. He received his PhD from Harvard. Through the decades Dr. Ichihashi was an ardent proponent of friendly relations between Japan and the United States. In recent years he had devoted much of his time to the study of Japanese medieval art. Survivors include his widow and a son, Woodrow, '40.

WEYMOUTH — Frank Walter Weymouth, '09, AM '11, PhD '23, professor of physiology, emeritus, died March 19 in Oakland after a short illness. He was 78. A member of the faculty from 1910, he served as head of the department of physiology from 1938 until his retirement in 1949. He had also been chairman of Medical School admissions for 15 years. During the summers he conducted fishery research, and had drawn up fishery regulations for the California Legislature that are still in effect. After leaving his Stanford post he joined the faculty of Los Angeles College of Optometry, retiring and moving to Berkeley in 1960. Survivors include his widow, the former Mary Balsbach Deirup, '08, AM '09; a son, John, '43; two daughters, Alice Weymouth Kuznets, '37, and Anne Weymouth Deirup, '40; and two stepchildren.

1895

ARMSTRONG — Louella May Reilay Armstrong died March 15 in River Forest, Ill. Survivors include a son and a sister.

HIDDEN—William Foster Hidden died the first week in March in Vancouver, Wash. He was 91. A native of Vancouver, he was a member of a pioneer family. He and his family had operated Hidden Brothers—engaged in the business of making brick, raising cattle, and selling hay and blasting materials. He later became a partner in the Hidden Brick Co. While at Stanford he was one of those who helped select cardinal as the school color. Survivors include a son and a daughter.

METCALF—John Nuckolls Metcalf died Feb. 19 in Altadena. He was 90. A native of Iowa, he had lived in California for 83 years. He was a former city attorney of Glendale and district attorney for San Diego County. For many years he was an oil lease and real estate attorney in Los Angeles. Survivors include his widow and a daughter.

WINLOW—Clara Vostrovsky Winlow died in March in Oroville, Calif. She was 91. An educator and author, she taught in Modesto and Stockton and later gave courses for teachers for the University of California Extension and Summer School. She had written 15 books for adults and children, including the popular *Kitten That Grew Too Fat.* Survivors include a daughter.

1899

BRUNTON—John Brunton died April 15 in Palo Alto. He was 87. A retired mining engineer, he had lived in Palo Alto for the past 32 years. He had worked in Alaska, Mexico, Nevada, New Mexico, and California prior to his retirement. While at Stanford he was a member of the track team and of Delta Kappa Epsilon fraternity. Survivors include his widow and a sister, Mary Brunton Bauer, '00.

1900

GOLDSTEIN—Alfred E. Goldstein died Jan. 23 in San Francisco. Survivors include his widow and a daughter.

McFADDEN — Thomas Lewis McFadden died Feb. 27 after a long illness. He was 84. A member of a pioneer Orange County family, he had lived in Placentia most of his life. He was a member of the Stanford football team, and after graduation coached at Oregon State and DePauw before establishing a law practice in Bellingham, Wash. He returned to Orange County in 1912 and for more than 40 years practiced law in Placentia. He had been active in numerous civic and fraternal groups. Survivors include a daughter, Ysidora McFadden Brower, '29; and two brothers, Clarence, '03, and Robert, '10.

1901

LAWSHE—Walter Delany Lawshe died Feb. 6 in Seattle, Wash. He was 85. He had retired 15 years ago after serving many years with I. F. Laucks, Inc., and the Monsanto Chemical Co. in Seattle. Survivors include his widow and a daughter.

1902

WILSON—Jessica Anna Wilson died Jan. 18, 1962, in Santa Monica after a brief illness. Survivors include a sister.

1903

ROTH—William Philip Roth died Feb. 24 in Woodside after several years of failing health. He was 83. A native of Honolulu, he joined Matson Navigation Co. after leaving Stanford. He was named secretary-treasurer in 1916, vice-president and general manager the following year, president in 1927, and board chairman in 1946. He is credited for much of the growth of Matson to a major Pacific line. He had also been a director of Oceanic & Oriental Navigation Co., Honolulu Oil Co., and Del Monte Properties. He was a member of Stanford Associates. Survivors include his widow, a son, and two daughters.

1904

PARKER — Grace Agnes Noon Parker died April 6 in Palo Alto. Survivors include her husband, three daughters, and a brother.

1905

CLARK — Edith Mary Tebbetts Clark died Dec. 31.

SALISBURY — Helen Molyneaux Salisbury died in March. She was 79. Co-author of the book *Outwitting our Nerves,* she had also written a number of children's stories. A collection of her favorite poems had been published in recent years titled *To Touch Infinity.* At Stanford she was a charter member of Gamma Phi Beta sorority. Survivors include a brother, Charles, '12.

1906

FRITSCHI — Aline Bofferding Fritschi died Dec. 29 in Beverly Hills. Survivors include her husband, Dr. Alfred R. Fritschi, MD '04; and two sons, Alfred M., '28, and David, '37.

TABER—Dr. Stephen Taber died Feb. 9 in Columbia, S.C., after a long illness. He was 80. A former head of the University of South Carolina geology and geography department, he had retired in 1947 after 35 years on the school's faculty. He also had been state geologist. Dr. Taber was a member of a number of learned and scientific societies and internationally known for his wide geologic investigation and for his books and articles. He had been a member of the American Institute of Mining, Metallurgical, and Petroleum Engineers for more than 50 years. Survivors include his widow; two daughters, including Elsie, AM '36; and a son.

1907

HAMPTON—Laura Ruth Adkinson Hampton died Feb. 1.

1908

GREENFIELD—Anna Mills Greenfield died in October at Bryn Mawr, Pa.

1909

McDUFFIE—William Chester McDuffie died April 10 in Montecito, Calif. He was 76. A pioneer in the petroleum industry in California, he was chairman of the board of Mohawk Petroleum Corp. and of the Northrop Corp. at the time of his death. He began his career in the San Joaquin Valley and in 1915 joined Shell Oil Co. He became vice-president of Royal Dutch-Shell and developed the Dutch East Indies fields for that firm. He later was president of Pacific Western Oil Co. and the Richfield Oil Co. He had long been active in the affairs of the California Institute of Technology, serving on the board of trustees since 1933 and as a vice-president and member of the executive council. In 1960 he and his wife established the William C. McDuffie Scholarship Fund at Stanford, the income to be used for awards in the humanities. As an undergraduate he was a member of Phi Delta Theta. Survivors include his widow, the former Mary Skaife, '12, and a son, Malcolm, '40.

1910

BURGE—Ruth Evalina Maddox Burge died in March in El Cerrito. Survivors include a son, Noel S. Burge Jr., LLB '48, and two daughters.

LINDAUER—Samson Arthur Lindauer died April 14 at Sawtelle, Calif. An attorney, he studied law at Harvard and long practiced in Southern California. He had been president of the Los Angeles City Civil Service Commission. He had been an active Democrat and member of the Shrine. At Stanford he was a Delta Chi and Phi Beta Kappa.

1911

LYNN—Charles Mathew Lynn died Feb. 17.

PECKHAM – Ignatius Martin Peckham, JD '13, died Feb. 21 in Chico. He was 74. Long a prominent attorney in San Francisco, he had served as U.S. Attorney and as Deputy State Attorney General and had been a professor at San Francisco Law School. He was a former president of the Society of California Pioneers and active in a number of other civic and fraternal groups. At Stanford he was named to Phi Beta Kappa. Survivors include his widow; a son, Jordan, '45, LLB '47; and a brother, Arthur, '12.

SCHUTZ—Charles Henry Schutz died March 15 in Kalamazoo, Mich., after a lingering illness. He was 78. A resident of Kalamazoo since 1933, he served as receiver for banks there and in Mt. Clemens when the banks closed in 1933. He later engaged in banking and real estate until his retirement four years ago. He was a former member of the Kalamazoo City Board of Review. He had been active in veterans affairs. Survivors include his widow, two daughters, a stepdaughter, and a brother.

WOODCOCK—Elbert Cecil Woodcock died June 20 in Portland, Ore.

1912

RUSSELL—Dr. Frank Marion Russell, AM '13, PhD '25, died April 5 in Oakland of a heart attack. He was 76. Long a member of the University of California faculty he had served as dean of the undergraduate division for two years and as chairman of the department of political science from 1943 to 1948. He retired in 1954. He had published widely, his three best known works being *Theories of International Relations*, *International Government of the Saar*, and *The Saar—Battleground and Pawn*. Survivors include his widow, a son, and a daughter.

1913

GILBERT—Carl Hughes Gilbert, JD '15, died Feb. 18 in Santa Fe, N.M., of cancer. Survivors include his widow, the former Margaret Lois McCoy, '15, and a son, William Woodruff, '43, LLB '45.

HANSEN – Helena Gertrude Hansen died March 13 in Palo Alto. She was 84. A native of Woodside, she taught in San Mateo County before coming to Palo Alto in 1922. She taught at Addison School until her retirement in 1947. Survivors include a brother.

HOLDITCH—George Edward Holditch died Dec. 10. Survivors include his widow.

1915

HURLEY – Morris Elmer Hurley, AM '16, died Feb. 6 in Oakland after a long illness. He was 71. After service in World War I he joined the Oakland schools and was a principal in elementary, junior high, and high schools for 34 years before retiring in 1954. He had been very active in professional and civic groups during the 44 years he lived in Berkeley. Survivors include his widow, a son, and a daughter.

JEFFERS—Florence Goodwin Mackey Jeffers died March 10 in Beverly Hills. She was 70. She was the widow of the late Paul E. Jeffers, '13. A member of Gamma Phi Beta at Stanford, she had been active as an alumna in Southern California. Additionally she was active in the Red Cross and the Assistance League. Survivors include a son, a daughter, and a sister, Margaret Mackey, '24.

1916

MACKALL—Murray Randolph Mackall died March 23 in Corte Madera. He was 72. Survivors include his widow, the former Helena Pearsall, '18, two daughters, and seven grandchildren.

SCHNELL – Eugene Andrew Schnell died March 24 in Palo Alto. He was 68. He joined the *San Francisco Examiner* as a cartoonist following World War I service and later was chief of the photographic and art department of the paper. In 1942 he joined the Office of War Information and later served in several overseas posts with the United States Information Service. While a student he was a member of the track team. Survivors include his mother and three sons.

1917

TOWNSEND – Thomas Harold Townsend died Nov. 18 in Napa, Calif., of a heart attack.

1918

DIXON—Dr. Robert James Dixon, MD '22, died March 1 in Coos Bay, Ore., of an acute coronary occlusion. He was 67. Dr. Dixon was engaged in the general practice of medicine and surgery in Coos Bay for 40 years. He was active in professional groups. Survivors include his widow, the former Lucy Powers, RN '21; two daughters, including Johanna Dixon West, '45; and six grandchildren, including Richard B. West III, '66.

1921

BUNDY – Douglas Bundy died March 25, 1962, in Los Angeles. Survivors include his widow and a brother, Robert, '23.

ROUSE—Marshall Keene Rouse, Engr. '22, died Sept. 22 after a long illness. Survivors include his widow and a daughter.

VOLF—Sarah Virginia Apperson Volf died Feb. 27 in Sonderberg, Denmark. Survivors include her husband and a sister, Catherine Apperson Melville, '23.

1922

KRULL—Donald Carl Krull died Dec. 24.

MOORE—Carl Allen Moore died last year following a long illness. Survivors include his widow.

WADSWORTH – Harry Albert Wadsworth died Sept. 5.

1923

BYL—Donald Hennegen Byl died Jan. 13 in Glendale, Calif. He was 63. A native of Iowa, he had lived in Glendale for some 25 years. He had long been an electrical engineer with Union Ice Co. and was a member of several professional groups. Survivors include his widow, a daughter, and two brothers.

1924

LUSK—George Everett Lusk died Sept. 10 of an apparent heart attack. Survivors include his widow.

1925

McCREERY—Hal McCreery died Feb. 21 in Sonoma of a heart attack. He was 62. A football star under Pop Warner, he had played on two Rose Bowl teams as center. He recently had been elected to the Stanford Athletic Hall of Fame. He lived in Los Altos and operated a sign company he established while a student. Survivors include his widow, a son, and a daughter.

1926

DRYDEN—Horace Walter Dryden died Feb. 28 in San Mateo of a heart attack. He was 59. Retired since 1959, he earlier had been owner of the Dryden Poultry Breeding Farm, Modesto. He was a past president of the Modesto Chamber of Commerce and the Modesto Rotary Club. At Stanford he was a member of Sigma Chi fraternity. He also held membership in the American Genetics Society and the American Eugenics Society. He was a fellow of the Royal Anthropological Institute of Great Britain. Survivors include his widow and three daughters, including Suzanne Dryden Thomas, '52, and Alice Dryden Thomas, '56.

FERGUSON – Kenneth Loveland Ferguson, JD '28, died March 26 in Berkeley of a heart attack. He was 57. A native of Oakland, he had practiced law in San Francisco for a number of years. He was a member of Stanford Associates and of Alpha Sigma Phi fraternity. He had been a member of the PACE special gifts committee. The family recently established the Kenneth Ferguson Law Scholarship. Survivors include his widow; a daughter, Lynn Ferguson Glaze, '55, two sons, Kenneth Scott, '56, and Douglas Pedder, Gr. '60–; and a brother, Chesley, '29.

SICKLER—J. Hackett Sickler died April 11 in Pasadena. He was 62. He was in the sales department of A. O. Smith Corp., oil pipe firm, in Los Angeles. He was a native of Pasadena and was one of a very few who had attended every Rose Bowl game. At Stanford he was a member of Zeta Psi fraternity. Survivors include his widow, a brother, and a sister.

1927

GOODWIN – Albert Burke Goodwin died Oct. 30.

1928

BIRCHETT—Joseph Anderson Birchett died recently. Survivors include his widow and his mother.

HALL—Gordon Hall Jr. died Dec. 10. A native of San Francisco, he had lived in Pasadena for some 25 years. He had practiced law in Los Angeles. Survivors include his widow, a sister, and a brother.

RIASSETTO – Margaret Riassetto, RN '28, died in February of an apparent heart attack. She had been a public health nurse at Stanford for more than 20 years prior to her retirement four years ago. Survivors include a niece and a nephew.

1929

ROGERS—John Millard Rogers died Jan. 13 in Pasadena after a brief illness. A retired stock broker, he had lived in Pasadena for a number of years. At Stanford he was a prominent athlete in the fields of baseball and boxing. Survivors include his widow.

1930

HENNIG – Vera Beatrice Johnson Hennig, RN '30, died July 20.

HUGHES – Clarice Hohfeld Hughes died Dec. 26 of cancer. At Stanford she was a member of Delta Delta Delta sorority.

1932

GRIDLEY—Haines Gridley died March 6 in Sacramento of a heart condition. He was 52. A special agent for the Maryland Casualty Co., he had been with the firm for 23 years. Survivors include his widow, two children, and a sister, Helen Gridley Updegraff, '25.

LANGDON—Gordon Langdon died March 8 in Palo Alto of a cerebral hemorrhage. He was 52. In the swimming pool business, he was with Sunset Pools at the time of his death. Earlier he had been with Dunham, Carrigan & Hayden Co., wholesale hardware. Survivors include his widow, a son, and a daughter.

LEIB—Samuel Franklin Leib died Feb. 11. A veteran air line official, he was with TWA at the time of his death. He earlier had been with American, United, and Pan American. Survivors include his widow, a son, and a daughter.

1937

CHARTERS—Herbert Francis Charters died Jan. 25 in Buffalo, N.Y., of a heart attack. Survivors include his widow, Deirdre Dobbs Charters, '37.

1938

MOORE—Gertrude Marie Moore died Feb. 9 in Palo Alto after a brief illness. She was 46. A former school teacher, she had in recent years been a real estate broker in Palo Alto. She was a former director of Little House in Menlo Park. Survivors include her mother.

1940

SADULLAH — Tevfik Sadullah, Engr. '42, died Feb. 6 in Palo Alto. He was 46. A former instructor at a technical university in Istanbul, he had returned to Stanford two years ago to work for his doctorate. Survivors include his widow and two sons.

1942

SAWYER — Dorothy Jane Belcher Sawyer died March 22 in Pasadena. She was 42. Survivors include her husband, Joseph Addison Sawyer; her parents, Mr. and Mrs. Frank B. Belcher, '14; two daughters; a brother; and a sister, Nancy Belcher Goodman, '47.

1943

WHITELEY—Carol Spaulding Whiteley died Nov. 14.

1946

SUITS—Dr. Charles Elihu Suits died Feb. 18.

1947

CHANEY—Samuel Emmons Chaney Jr. died in October. He was 36. Survivors include his widow.

1949

LEISEDER — Beatrice Clara Leiseder died Nov. 16. She was 39. Survivors include her father.

1951

JOHNSON—Thomas Per Johnson was killed in an airplane crash Sept. 10. He was 39. Survivors include his widow.

1954

MAY—John Frederick May died Feb. 21 in Chicago, Ill., of a heart attack. He was 30. Survivors include his widow and a son, Craig Steven.

Business

KINKADE — Hulme Hardy Kinkade, MBA '46, died Jan. 12 in San Anselmo of a heart ailment. He was 48. A teacher of business at the College of Marin at the time of his death, he earlier taught in Sunnyvale and San Francisco. He recently resigned as the college's representative to the California Teachers' Association state board. Survivors include his widow, three children, his mother, and a brother.

VANDER WALL — Wallace Vander Wall, MBA '56, died Feb. 11 in Redlands, Calif., of a heart ailment. Survivors include his parents, a sister, and a brother, Robert, '58.

Earth Sciences

GRIMSLEY—George Perry Grimsley, Gr. '01, died Jan. 18 in Baltimore, Md.

TOUWAIDE—Dr. Marcel Emile Touwaide, PhD '27, died in February. Survivors include his widow.

Education

GURNEE — Robert Lakin Gurnee, AM '52, died Oct. 10 in San Jose of a heart attack.

HARVEY—Gladys Theodora Harvey, Gr. '36, died Sept. 2.

HAWKINSON—Lawrence Axel Hawkinson, AM '33, died Jan. 11. He had served as principal of Presidio, Francisco, and Everett junior high schools and of the John Sweet School, all in San Francisco, prior to his retirement in 1956. Survivors include his widow, a daughter, and a son, Lawrence D., AM '62.

MUNSELL—Mary Elizabeth Keller Munsell, Gr. '44, died Feb. 1.

MERKLEY—Dr. Marion Gibb Merkley, EdD '49, died April 4 in Salt Lake City of a blood clot while recuperating from an earlier operation. He was 61. Superintendent of public instruction for Utah since September, he had long been a prominent educator in that state. Before receiving his last assignment he had been deputy superintendent of schools in Salt Lake City. He had also been active in civic affairs. Survivors include his widow and two sons.

MOHR—Louise Maud Mohr, Gr. '47, died July 13 of a heart attack. Survivors include a niece.

PEDLER—William James Pedler Jr., Gr. '36, died March 18 in Belvedere. He was 51. Survivors include a brother.

PERRY — Fay Lyllian Perry, Gr. '37, died Jan. 22.

ROSS—Felix Bruno Ross, Gr. '19, died in September in Storm Lake, Iowa. Survivors include his widow.

SHIPLEY — Mabel Rosamond Shipley, Gr. '49–52, died Jan. 22 in Portland, Ore., after a long illness. She was 66. A member of Seattle Pacific College's faculty from 1929 to 1956, she then joined the Cascade College, Portland, faculty, retiring in 1961. Survivors include her mother.

TIBBITTS—Fred Lyman Tibbitts, EdD '31, died March 11 in Santa Cruz. He was 70. A pioneer in the field of vocational guidance, he had authored several books in the field. He had taught at Tulsa University, Oklahoma State, and the University of Oklahoma. Prior to his retirement in 1958 he was a consulting psychologist with the Veterans Administration in Los Angeles. Survivors include his widow, two daughters, and a brother.

Humanities–Sciences

BAAS-BECKING — Dr. Lawrence B. Baas-Becking, PhD '21, died in January in Canberra, Australia. A world famous botanist, he taught at Stanford from 1920 to 1931.

BEALES — Benjamin Bronston Beales, AM '42, died in July.

DURHAM—George Clarke Durham, Gr. '94, died Dec. 23. He was 88. Member of a pioneer Oregon family, he had practiced law in Portland prior to his retirement 12 years ago. Survivors include two sons and a daughter.

McCALLUM — Bertha Rebecca McCallum, Gr. '26, died March 13 in San Francisco.

McLEAN—Charles William McLean, Gr. '39, died Jan. 15 in Palo Alto after a long illness. He was 45. Survivors include his mother.

ROBINSON—Jeanne Keever Robinson, AM '33, died Feb. 21. Survivors include her husband, Dr. J. William Robinson, '30, AM '31, PhD '36, chairman of the department of political science and international relations at Whittier College; two sons; her mother; and a sister, Deborah Keever Macy, '33.

TENNEY — Cecilia Edith Tenney, AM '31, PhD '38, died March 3 in Portland, Ore., following a brief illness. Associate professor of romance languages at Reed College, she had been a member of the faculty since 1921. Survivors include her mother.

WARDLAW — Ada Fay Wyman Wardlaw, AM '30, died in February in New York City. A teacher in Palo Alto for several years, she later was with the Stanford Food Research Institute. She had collaborated in writing and editing a number of books for the American Friends Service Committee. Survivors include her husband.

WOODWARD—Nancy Salisbury Woodward, Gr. '54, died Feb. 16 in Redwood City of injuries incurred in an automobile accident. Survivors include her husband, Eliot, and two children.

Law

BOYD—William F. Boyd, Gr. '60–, was killed in an automobile accident Jan. 19 near Madera. He was 24. Survivors include his parents.

KIRK—Helen Lee Kirk, LLB '47, died Oct. 2.

STANLEY—Charles Calvin Stanley Jr., LLB '36, died Feb. 20 in Los Angeles. He was 51. A native of Los Angeles, he had served as deputy county counsel there and later practiced law with the firms of Kline, Barton and Stanley and Stanley and Kirby. At the time of his death he was vice-president and a director of Franco Western Oil Co. Survivors include his widow, the former Gwen Elizabeth Baldwin, '39; a daughter; his mother; a sister; and a brother.

The Silent Generation Speaks Up

WHATEVER became of the Silent Generation? As time is measured by the middle-aged, it was only last week that we were panic-stricken because students didn't speak up. Now they decline to *shut* up.

Or so it seems. Actually, in the era of taciturnity, students probably said more than was heard. We didn't notice because we were so loudly bewailing their silence. Now they've captured our attention, and our ears are so sensitive that we may be hearing more than is said.

Perhaps what frustrates older people more than what students actually say is their bland assumption that when they speak, all must stop and pay heed. The Bill of Rights guarantees freedom of speech to everyone, but it doesn't require anyone to listen. Demanding attention as a *right*, therefore, is an abrasive act certain to insure an audience — which shows what positive thinking will do.

During the present academic year almost every issue of the *Review* has reported some aspect of the growing student challenge to administrative authority and judgment. Now, as the term ends, it's time for a feeble attempt at interpretation.

If there is any one major student argument, it's this: that the institution's function is merely to teach, and that it has no business "meddling" in their private concerns. This attitude exists not only at Stanford, but at virtually every college in the country and is perhaps as much an argument with parents as with educational authorities. One suspects the change is not as sudden as it seems; that all during the "silent" days new attitudes were germinating. And perhaps it's less of a change than it seems, except in its openness.

Beyond that, there is little doubt that a majority of students want, and expect, to be consulted in matters which traditionally fall under the heading of student affairs. The number who seriously expect to win a voice in formulation of major educational and operating policy is surely much smaller. The number of activists who think their views should prevail over all others in all circumstances, and seek to impose them by various forms of coercion, constitutes a moralistic but minuscule minority. Only about 3 percent of the student body signed anti-fallout shelter petitions, for example, and only a fraction of those took part in "vigils."

But limited numbers should not be equated with lack of influence. Student activists win few battles, but even when their causes are scorned, their willingness to confront "the Administration" is admired—and is likely to be emulated by other students, at other times, on other issues which possess greater apparent merit.

STANFORD has actually been remarkably responsive to student demands. The governed sit with the governors on several committees related to student interests, at no small cost in time and effort to the faculty members who permit them to do so. There is a continuity of life and effort on this campus that is vital to effective operation, and continuity is not a notable student strength.

Where this will all lead can't be predicted with any confidence, but a few broad postulates can be offered:

1. University officials will encourage responsible student participation in their councils wherever they consider this participation reasonable and proper, but will not abdicate or delegate basic institutional responsibility and control.

2. Therefore some students will often disagree with them about what is reasonable and proper.

3. When there is disagreement, the officials will prevail.

4. As a result there will often be harsh words, but a more viable relationship will eventually result.

Dan Endsley

The Stanford Family Forum

(*Continued from page 14*) Children learn by example. A way of life must be "lived," not merely talked about.

Later we come to the stage where her college education can be the foundation for a career outside the home. If a woman has continued to read and learn during her early years of marriage, she can go back to college for a course or two at a time once her children are in school all day. She can be preparing for a career at a later stage in life. A master's degree plus valuable experience gained by raising a family and doing volunteer work in the community can qualify her to be an even better teacher, social worker, guidance counselor, decorator, politician, or executive than she would have been in her early 20s. Even those who majored in pure sciences can take advanced courses later on and pursue scientific careers. A woman's BS degree or her AB degree is her passport to further study, and she will be awfully glad to have it.

Her husband and children will admire her for being an individual with goals of her own. She will not be the possessive, desperate woman in her 40s or 50s who has failed to plan for those years after the children have grown. We live a long time now, and often we are happier working in our later years.

Our universities must give us back our femininity by recognizing that our role is that of complementing a man, not competing with him. We can still study economics, political science, and pure sciences and perhaps teach them later on. But, while our children are young, we could also use this knowledge for community service. In addition, we should be expected to have a knowledge of our cultural heritage and the world's history, literature, and the arts so that we can introduce these to our children.

The universities could make an important contribution to society by making women more aware of their long range possibilities by pointing out that a woman can have a career in later life just as well as at graduation. They must also emphasize women's responsibility for preserving our heritage.

ANNE HUSTON GILLILAND, '47
Lake Oswego, Oregon

Everywhere, New England Life agents are tearing up their contracts

Of course, you don't destroy a good thing unless you've got a better one. This agent has. So have New England Life agents everywhere. It's a brand-new New England Life contract with many major improvements.

Over the years we've told you about the careers of so many of our agents that it seems appropriate to share news of this new development with you.

It isn't every day an agent happily tears up his contract. Or a new one like this comes along. Particularly, as in this case, on the heels of a broad liberalization in the agents' medical and retirement plans.

If you have ever thought about a career in life insurance—or if you're starting to think a little about it now—why not take that necessary preliminary step and write for more information. Address John Barker, Jr., New England Life, 501 Boylston Street, Boston 17, Massachusetts.

NEW ENGLAND LIFE

NEW ENGLAND MUTUAL LIFE INSURANCE COMPANY: INDIVIDUAL AND GROUP LIFE INSURANCE, ANNUITIES AND PENSIONS. GROUP HEALTH COVERAGES.

These Stanford men are New England Life representatives:

D. Kenneth Elliott, '26, Los Angeles
Wm. Eugene Hays, CLU, '26, Gen. Agt., Boston
Rupert M. Adams, CLU, '29, Los Angeles
Patterson D. Nowell, '40, Pasadena
William B. Jadden, CLU, '41, Los Angeles
Melvin P. Gundlach, '48, Los Angeles
Jack A. Martinelli, CLU, '48, Gen. Agt., San Francisco
Robert R. Teall, CLU, '48, Orlando
Earle L. Patten, CLU, '49, Agency Manager, Fresno
W. David Phillips, '49, Fresno
Robert D. Childs, CLU, '50, Santa Ana
Joseph F. Pickering, CLU, '50, Palo Alto
David G. Hoffman, CLU, '51, Menlo Park
Joseph M. Chez, '53, Sacramento
William E. Choate, CLU, 53, Los Angeles
John C. Kern, '55, San Francisco
Robert C. Higbee, '58, San Jose

Instant portable power... any time, any place

In this battery-sparked new world of portable convenience, hand tools are driven by their own rechargeable batteries . . . toys perform their tricks by remote control . . . a hearing aid with its button-size power cell can be slipped into the ear . . . cordless radios and television sets are lively companions in the home or outdoors . . . missiles and satellites are guided through the vastness of space. ▶ Developments like these have brought more than 350 types of EVEREADY batteries into use today, 73 years after Union Carbide produced the first commercial dry cell. Ever-longer service life and smaller size with power to spare are opening the way for batteries, such as the new alkaline cells, to serve hundreds of new uses. ▶ For the future, along with their research in batteries, the people of Union Carbide are working on new and unusual power systems, including fuel cells. And this is only one of the many fields in which they are active in meeting the growing needs of tomorrow's world.

A HAND IN THINGS TO COME

UNION CARBIDE

LOOK *for these other famous Union Carbide consumer products—*
LINDE *Stars,* PRESTONE *anti-freeze and car care products, "6-12" Insect Repellent,* DYNEL *textile fibers.*
Union Carbide Corporation, 270 Park Avenue, New York 17, N. Y. In Canada: Union Carbide Canada Limited, Toronto.

LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERS

ES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFO
ORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY
ANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNI
IVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY
BRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES ·
ITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES
IES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFOR
ORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSIT
ANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNI
IVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY
BRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES ·
ITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES
IES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFOR
ORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSIT
ANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNI
IVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY
BRARIES · STANFORD UNIVERSITY LIBRARIES · STANFORD UNIVERSITY LIBRARIES ·

STANFORD UNIVERSITY LIBRARIES